The Ontario Milk Marketing Board

Dairy Statistical Handbook

1990-1991

7th Edition

OMMB STATISTICAL HANDBOOK

1990 - 1991

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Economic Services

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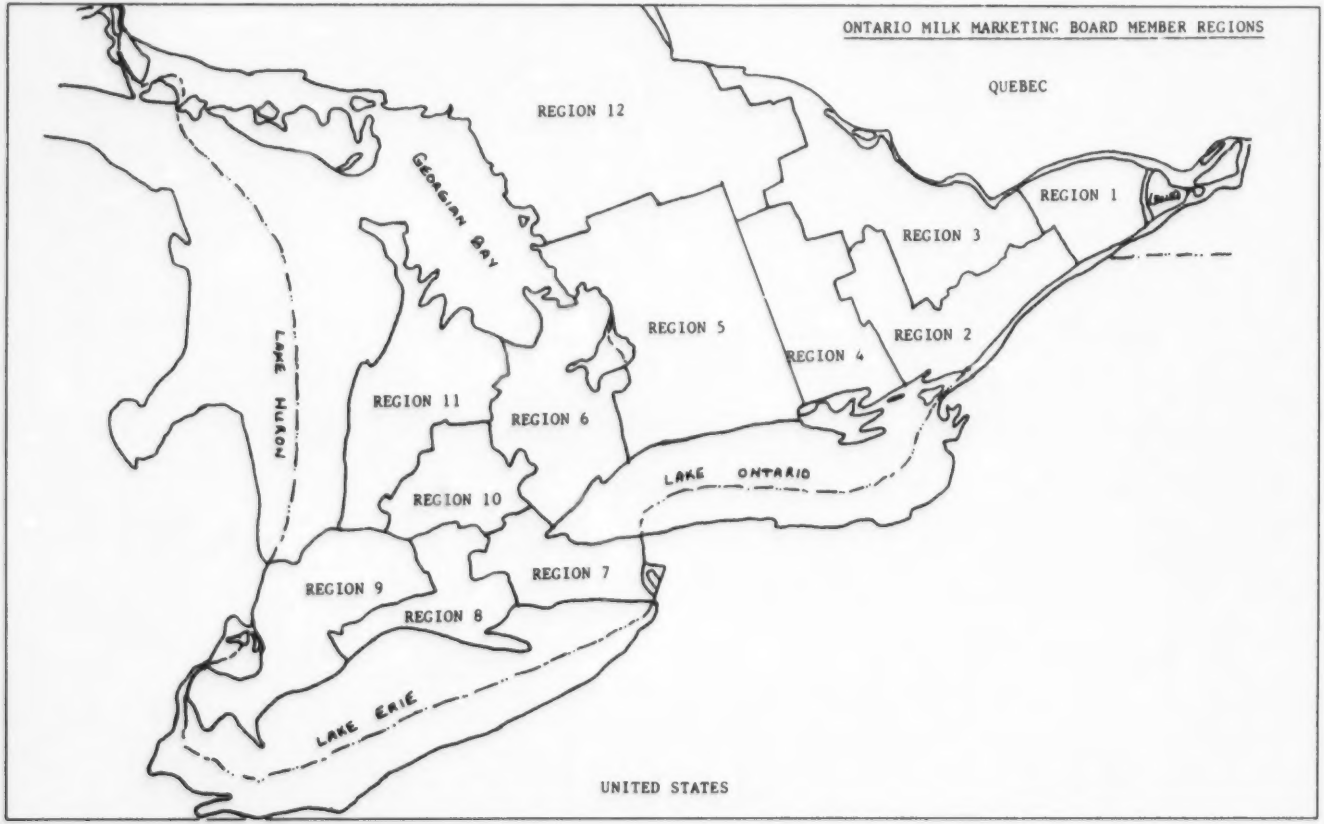
ONTARIO MILK MARKETING BOARD MEMBER REGIONS

Region	Counties
1	Glengarry, Prescott, Russell, Stormont
2	Dundas, Frontenac, Grenville, Leeds
3	Carleton, Lanark, Renfrew
4	Hastings, Lennox & Addington, Prince Edward
5	Durham, Muskoka District, Northumberland, Ontario, Peterborough, Victoria
6	Dufferin, Halton, Peel, Simcoe, York
7	Brant, Haldimand, Niagara North, Niagara South, Wentworth
8	Elgin, Norfolk, Oxford
9	Essex, Kent, Lambton, Middlesex
10	Perth, Waterloo, Wellington
11	Bruce, Grey, Huron
12	The Districts of Northern Ontario

Table 1


ONTARIO MILK MARKETING BOARD MEMBER REGIONS
QUEBEC
REGION 12
GEORGIAN BAY
REGION 1
REGION 3
REGION 5
REGION 4
REGION 2
LAKE HURON
REGION 11
REGION 6
LAKE ONTARIO
REGION 10
REGION 7
REGION 9
REGION 8
LAKE ERIE
UNITED STATES

LICENCED MILK PRODUCTION UNITS IN ONTARIO BY BOARD REGIONS, COUNTIES, AND DISTRICTS, 1982 AND 1987 - 1991

August 1st

	1982	1987	1988	1989	1990	1991
Glengarry	286	251	250	242	248	247
Prescott	399	354	356	350	339	340
Russell	354	302	293	280	274	263
Stormont	266	236	228	218	215	219
Board Region 1	**1,305**	**1,143**	**1,127**	**1,090**	**1,076**	**1,069**
Dundas	401	367	364	361	348	342
Frontenac	202	174	173	165	157	151
Grenville	130	108	103	98	92	87
Leeds	336	285	276	269	254	249
Board Region 2	**1,069**	**934**	**916**	**893**	**851**	**829**
Carleton	324	265	257	251	242	238
Lanark	199	163	156	151	142	138
Renfrew	190	167	167	168	168	162
Board Region 3	**713**	**595**	**580**	**570**	**552**	**538**
Hastings	332	277	260	249	238	233
Lennox & Addington	145	123	124	119	115	113
Prince Edward	201	173	164	159	153	145
Board Region 4	**678**	**573**	**548**	**527**	**506**	**491**
Durham	121	105	104	102	100	99
Northumberland	299	247	237	222	215	209
Ontario	246	216	205	193	188	189
Peterborough	158	135	130	121	118	119
Victoria	121	117	116	111	104	107
Muskoka District	14	8	6	4	4	4
Board Region 5	**959**	**828**	**798**	**753**	**729**	**727**
Dufferin	108	95	87	88	80	78
Halton	79	63	55	52	47	45
Simcoe	311	260	255	247	238	239
York	135	103	94	81	71	67
Peel	140	121	115	109	101	99
Board Region 6	**773**	**642**	**606**	**577**	**537**	**528**
Brant	145	126	124	119	110	106
Haldimand	241	215	211	210	200	194
Niagara North	159	143	139	128	124	118
Niagara South	89	76	76	73	73	73
Wentworth	149	129	125	111	99	97
Board Region 7	**783**	**689**	**675**	**641**	**606**	**588**

Table 2

LICENCED MILK PRODUCTION UNITS IN ONTARIO BY BOARD REGIONS, COUNTIES, AND DISTRICTS, 1982 AND 1987 - 1991
August 1st

	1982	1987	1988	1989	1990	1991
Elgin	196	173	175	177	171	172
Norfolk	65	54	53	54	50	49
Oxford	747	692	681	662	631	612
Board Region 8	**1,008**	**919**	**909**	**893**	**852**	**833**
Essex	79	57	56	53	44	41
Kent	17	14	14	14	13	13
Lambton	139	126	122	123	114	110
Middlesex	383	322	314	300	291	281
Board Region 9	**618**	**519**	**506**	**490**	**462**	**445**
Perth	783	693	676	665	656	647
Waterloo	329	329	321	315	317	315
Wellington	568	533	529	514	508	500
Board Region 10	**1,680**	**1,555**	**1,526**	**1,494**	**1,481**	**1,462**
Bruce	400	358	349	347	336	327
Grey	359	314	302	298	284	269
Huron	498	426	419	416	401	388
Board Region 11	**1,257**	**1,098**	**1,070**	**1,061**	**1,021**	**984**
Nipissing	95	85	83	81	78	72
Parry Sound	26	23	22	21	21	20
Sudbury	30	27	28	28	26	28
Timiskaming	130	111	110	105	104	99
Cochrane	23	20	20	17	18	20
Algoma	44	39	38	37	36	35
Manitoulin	17	16	15	16	17	17
Kenora	9	8	7	7	5	5
Rainy River	41	35	34	34	34	33
Thunder Bay	88	76	75	73	70	68
Board Region 12	**503**	**440**	**432**	**419**	**409**	**397**
PROVINCIAL TOTAL	**11,346**	**9,935**	**9,693**	**9,408**	**9,082**	**8,891**

Table 2 (cont'd)

Table 3

DISTRIBUTION OF LICENCED MILK PRODUCTION UNITS BY ANNUAL LEVEL OF MILK SHIPMENTS, 1981/82 AND 1986/87 - 1990/91

Number of Licenced Milk Production Units[1]
Dairy Year - August to July

Annual Milk Shipments (litres)	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
50,000 or less	209	145	129	109	113	110
50,001 - 100,000	1,272	829	656	597	583	543
100,001 - 150,000	2,177	1,656	1,419	1,306	1,215	1,131
150,001 - 200,000	2,386	1,887	1,780	1,631	1,541	1,520
200,001 - 250,000	1,860	1,746	1,658	1,601	1,516	1,460
250,001 - 300,000	1,171	1,148	1,225	1,234	1,217	1,196
300,001 - 350,000	663	742	825	830	780	825
350,001 - 400,000	423	472	489	539	522	550
400,001 - 450,000	220	277	342	351	361	329
450,001 - 500,000	138	161	202	203	216	228
500,001 - 550,000	88	99	126	134	138	153
550,001 - 600,000	58	79	71	87	91	97
600,001 - 650,000	33	43	70	52	52	64
650,001 - 700,000	22	34	27	52	45	50
700,001 - 750,000	25	27	37	24	38	40
750,001 - 800,000	12	11	17	21	24	31
800,001 and over	39	60	69	75	87	95
Total	**10,796**	**9,416**	**9,142**	**8,846**	**8,539**	**8,422**

[1] Includes only those producers with active licence numbers for the entire 12 months.

Table 4

MILK MARKETED[1] BY OMMB FROM LICENCED MILK PRODUCTION UNITS IN ONTARIO, 1981/82 AND 1986/87 - 1990/91
Dairy Year - August to July

	1981/82		1986/87		1987/88		1988/89		1989/90		1990/91	
	Litres ('000)	%	Litres ('000)	%	Litres ('000)	%	Litres ('000)	%	Litres ('000)	%	Litres ('000)	%
August	211,076	8.9	200,779	8.7	207,747	8.7	206,926	8.7	195,532	8.3	203,782	8.7
September	193,650	8.1	186,416	8.1	191,736	8.0	197,188	8.2	184,230	7.9	190,498	8.1
October	185,183	7.8	180,177	7.8	188,666	7.9	193,445	8.1	182,882	7.8	186,201	7.9
November	172,272	7.2	169,880	7.3	179,217	7.5	184,780	7.7	176,157	7.5	178,946	7.6
December	182,341	7.7	179,907	7.8	191,611	8.0	196,352	8.2	186,569	8.0	190,155	8.1
January	185,440	7.8	185,321	8.0	196,869	8.2	201,276	8.4	193,688	8.3	195,139	8.3
February	172,104	7.2	171,218	7.4	186,983	7.8	184,151	7.7	180,071	7.7	179,134	7.6
March	199,879	8.4	197,506	8.5	205,078	8.6	207,390	8.7	204,562	8.7	202,094	8.6
April	206,909	8.7	202,604	8.8	204,655	8.6	206,192	8.6	204,736	8.7	201,944	8.6
May	224,803	9.5	218,619	9.5	215,248	9.0	213,958	9.0	216,103	9.2	212,183	9.1
June	223,656	9.4	211,782	9.2	212,591	8.9	201,777	8.4	211,110	9.0	202,472	8.6
July	219,225	9.2	209,085	9.0	212,033	8.9	197,065	8.2	208,348	8.9	201,493	8.6
Dairy Year Total	**2,376,538**	**100.0**	**2,313,294**	**100.0**	**2,392,434**	**100.0**	**2,390,500**	**100.0**	**2,343,988**	**100.0**	**2,344,041**	**100.0**

[1] Rejected milk excluded.

Note: Totals may not add exactly due to rounding.

SEASONALITY OF PRODUCTION, 1981/82 AND 1986/87 - 1990/91
Average Daily Shipments[1] as a Per Cent of Annual Average Daily Shipments[2]
Dairy Year - August to July

	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
	%	%	%	%	%	%
August	104.57	102.19	102.52	101.92	98.22	102.36
September	99.14	98.04	97.77	100.36	95.63	98.88
October	91.75	91.71	93.10	95.28	91.86	93.53
November	88.19	89.35	91.39	94.05	91.44	92.88
December	90.34	91.57	94.56	96.71	93.72	95.52
January	91.87	94.32	97.15	99.14	97.29	98.02
February	94.40	96.48	98.64	100.42	100.14	99.62
March	99.03	100.53	101.20	102.15	102.75	101.51
April	105.93	106.56	104.36	104.94	106.27	104.82
May	111.38	111.27	106.22	105.38	108.55	106.58
June	114.50	111.39	108.41	102.70	109.58	105.09
July	108.61	106.42	104.64	97.06	104.66	101.21
Annual Average Daily Shipments[2] (thousand litres)	**6,511.1**	**6,337.8**	**6,536.7**	**6,549.3**	**6,421.9**	**6,422.0**

[1] Total monthly shipments divided by days in the month.
[2] Total annual shipments for the dairy year divided by the days in the year.

Table 6

MILK MARKETED[1] BY OMMB BY BOARD REGIONS, COUNTIES, AND DISTRICTS, 1981/82 AND 1986/87 - 1990/91
Dairy Year - August to July
(thousand litres)

	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
Glengarry	48,826	53,209	56,353	57,557	59,986	62,882
Prescott	78,356	84,866	89,366	93,257	93,790	96,644
Russell	77,999	81,246	85,568	86,804	86,402	87,018
Stormont	52,548	51,608	53,833	54,262	53,172	55,377
Board Region 1	**257,729**	**270,929**	**285,120**	**291,880**	**293,350**	**301,921**
Dundas	84,104	84,044	88,709	90,803	89,244	89,129
Frontenac	35,140	34,245	34,906	35,068	33,425	32,256
Grenville	26,539	23,370	23,793	23,771	22,984	22,456
Leeds	59,063	55,129	56,920	57,894	55,997	54,971
Board Region 2	**204,846**	**196,788**	**204,328**	**207,536**	**201,650**	**198,812**
Carleton	72,048	69,028	71,980	73,211	72,293	72,046
Lanark	33,706	30,671	30,542	30,458	29,037	28,694
Renfrew	36,398	35,262	37,076	38,227	38,649	38,917
Board Region 3	**142,152**	**134,961**	**139,598**	**141,896**	**139,979**	**139,657**
Hastings	60,197	55,059	55,248	54,137	53,675	52,827
Lennox & Addington	30,219	29,679	29,980	30,103	29,199	28,437
Prince Edward	38,300	35,265	36,231	35,150	32,921	31,980
Board Region 4	**128,716**	**120,003**	**121,459**	**119,390**	**115,795**	**113,244**
Durham	27,843	26,700	27,045	26,960	27,016	27,163
Northumberland	56,306	51,787	52,768	51,588	49,884	49,634
Ontario	61,802	58,413	59,210	58,419	54,337	54,589
Peterborough	33,163	33,065	34,193	32,961	31,767	31,489
Victoria	25,171	25,520	27,109	26,766	25,868	26,154
Muskoka District	1,569	1,003	743	445	364	371
Board Region 5	**205,854**	**196,488**	**201,068**	**197,139**	**189,236**	**189,400**

Table 6 (cont'd)

MILK MARKETED[1] BY OMMB
BY BOARD REGIONS, COUNTIES, AND DISTRICTS,
1981/82 AND 1986/87 - 1990/91
Dairy Year - August to July
(thousand litres)

	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
Dufferin	22,722	22,760	23,229	23,337	21,418	21,178
Halton	14,802	13,084	12,247	11,311	10,707	10,488
Simcoe	70,117	62,598	63,465	63,361	60,268	60,230
York	30,229	25,512	24,742	23,244	20,755	19,333
Peel	36,884	36,044	36,528	36,415	34,400	34,126
Board Region 6	**174,754**	**159,998**	**160,211**	**157,668**	**147,548**	**145,355**
Brant	32,761	31,879	32,766	32,557	31,622	30,249
Haldimand	49,566	49,462	51,347	50,909	49,285	50,238
Niagara North	33,797	32,399	33,278	31,751	30,000	30,374
Niagara South	18,217	17,519	18,118	17,839	17,455	18,085
Wentworth	31,117	30,174	31,336	30,599	28,934	29,103
Board Region 7	**165,458**	**161,433**	**166,845**	**163,655**	**157,296**	**158,049**
Elgin	41,479	40,633	42,958	43,548	43,436	44,577
Norfolk	13,820	12,849	13,162	13,335	12,944	12,063
Oxford	167,083	170,566	178,605	178,801	177,425	177,943
Board Region 8	**222,382**	**224,048**	**234,725**	**235,684**	**233,807**	**234,583**
Essex	14,403	10,893	11,022	10,580	9,427	8,885
Kent	4,445	3,417	3,448	3,466	3,519	3,555
Lambton	32,266	31,216	32,494	31,793	32,199	30,640
Middlesex	89,936	87,351	90,272	88,979	87,770	87,698
Board Region 9	**141,050**	**132,877**	**137,236**	**134,818**	**132,915**	**130,778**
Perth	165,270	160,239	167,244	167,830	167,390	168,224
Waterloo	69,422	73,947	76,715	76,615	76,617	77,239
Wellington	125,832	128,346	135,608	134,675	133,475	134,718
Board Region 10	**360,524**	**362,532**	**379,567**	**379,120**	**377,482**	**380,181**

Table 6 (cont'd)

MILK MARKETED[1] BY OMMB BY BOARD REGIONS, COUNTIES, AND DISTRICTS, 1981/82 AND 1986/87 - 1990/91
Dairy Year - August to July
(thousand litres)

	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
Bruce	85,124	80,031	83,236	84,334	82,458	81,718
Grey	63,468	60,929	62,045	62,146	59,938	58,606
Huron	108,176	99,281	103,335	102,909	101,962	100,787
Board Region 11	**256,768**	**240,241**	**248,616**	**249,389**	**244,358**	**241,111**
Nipissing	18,109	17,916	17,911	17,384	16,950	16,443
Parry Sound	4,479	3,847	3,797	3,785	3,598	3,565
Sudbury	5,772	5,571	5,904	5,918	5,756	5,993
Timiskaming	34,191	32,509	32,352	31,791	31,678	31,989
Cochrane	5,612	5,516	5,535	5,175	4,687	5,058
Algoma	10,573	10,328	10,524	10,899	10,734	10,629
Manitoulin	3,986	3,891	3,660	3,710	3,932	3,882
Kenora	2,210	2,185	2,196	2,164	2,087	2,130
Rainy River	7,834	7,639	7,958	7,715	7,506	7,471
Thunder Bay	23,539	23,594	23,824	23,784	23,644	23,790
Board Region 12	**116,305**	**112,996**	**113,661**	**112,325**	**110,572**	**110,950**
PROVINCIAL TOTAL	**2,376,536**	**2,313,294**	**2,392,434**	**2,390,500**	**2,343,988**	**2,344,041**

[1] Rejected milk excluded.

ONTARIO WEIGHTED AVERAGE BUTTERFAT TESTS, 1981/82 and 1986/87 - 1990/91
Dairy Year - August to July
(kilograms per hectolitre)

	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
August	3.64	3.74	3.71	3.73	3.76	3.77
September	3.72	3.91	3.88	3.89	3.86	3.90
October	3.87	3.98	4.02	4.02	4.01	4.05
November	3.87	3.98	4.01	4.00	4.02	4.03
December	3.85	3.96	3.97	3.99	4.02	4.02
January	3.85	3.93	3.96	3.98	3.97	4.02
February	3.85	3.94	3.96	3.99	3.96	4.00
March	3.83	3.93	3.97	4.02	3.98	4.00
April	3.82	3.89	3.94	3.98	3.96	3.97
May	3.77	3.85	3.90	3.96	3.92	3.91
June	3.72	3.78	3.81	3.89	3.83	3.80
July	3.64	3.71	3.75	3.77	3.78	3.73
12-Month Weighted Average	**3.78**	**3.88**	**3.90**	**3.93**	**3.92**	**3.93**

ONTARIO WEIGHTED AVERAGE PROTEIN TESTS, 1981/82 and 1986/87 - 1990/91
Dairy Year - August to July
(kilograms per hectolitre)

	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
August	3.28	3.24	3.26	3.27	3.25	3.27
September	3.35	3.36	3.38	3.42	3.37	3.35
October	3.46	3.37	3.44	3.48	3.43	3.41
November	3.43	3.38	3.38	3.43	3.40	3.42
December	3.42	3.36	3.34	3.41	3.42	3.40
January	3.40	3.31	3.33	3.36	3.40	3.40
February	3.36	3.31	3.34	3.36	3.35	3.37
March	3.32	3.25	3.37	3.37	3.34	3.34
April	3.27	3.23	3.29	3.33	3.28	3.29
May	3.29	3.20	3.27	3.27	3.29	3.28
June	3.30	3.18	3.26	3.28	3.29	3.23
July	3.24	3.19	3.19	3.22	3.24	3.21
12-Month Weighted Average	**3.34**	**3.28**	**3.32**	**3.35**	**3.34**	**3.33**

ONTARIO WEIGHTED AVERAGE LACTOSE[1] TESTS, 1981/82 and 1986/87 - 1990/91
Dairy Year - August to July
(kilograms per hectolitre)

	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91[1]
August	5.09	5.07	5.06	5.12	5.09	4.88
September	5.06	5.03	5.06	5.07	5.04	4.86
October	5.06	5.02	5.04	5.06	5.01	4.89
November	5.05	5.02	5.04	5.11	5.05	4.90
December	5.09	5.06	5.08	5.14	5.13	4.89
January	5.08	5.10	5.14	5.18	5.13	4.93
February	5.08	5.05	5.12	5.15	5.14	4.92
March	5.13	5.07	5.13	5.12	5.16	4.95
April	5.13	5.17	5.18	5.13	5.18	4.98
May	5.14	5.19	5.22	5.16	5.17	4.96
June	5.14	5.13	5.22	5.14	5.17	4.91
July	5.07	5.07	5.24	5.15	5.15	4.95
12-Month Weighted Average	**5.10**	**5.08**	**5.13**	**5.13**	**5.12**	**4.92**

[1] Testing procedures for lactose were changed August 1, 1990. This resulted in lower tests for lactose.

ONTARIO WEIGHTED AVERAGE SOLIDS-NOT-FAT[1] TESTS, 1986/87 - 1990/91
Dairy Year - August to July
(kilograms per hectolitre)

	1986/87	1987/88	1988/89	1989/90	1990/91
August	8.99	8.96	8.98	8.94	9.00
September	9.12	9.04	9.10	9.09	9.05
October	9.09	9.15	9.18	9.20	9.13
November	9.08	9.14	9.16	9.16	9.14
December	9.12	9.13	9.14	9.15	9.11
January	9.07	9.14	9.17	9.16	9.13
February	9.09	9.13	9.16	9.16	9.13
March	9.08	9.12	9.18	9.14	9.09
April	9.04	9.10	9.17	9.09	9.08
May	9.04	9.07	9.13	9.11	9.07
June	9.01	9.02	9.05	9.10	8.99
July	8.96	8.98	8.94	9.00	8.97
12-Month Weighted Average	**9.06**	**9.08**	**9.11**	**9.11**	**9.07**

[1] Solids-not-fat (SNF) refers to the solids in the milk other than butterfat including protein, lactose, and minerals.

Table 11

MARKET SHARING QUOTA ENTITLEMENT BY PROVINCE, AUGUST 1, 1987-1991
(million kg butterfat)

Province	Date of Entry into Plan	Original Entitlement	Authorized MSQ August 1 1987	August 1 1988	August 1 1989	August 1 1990	August 1 1991
Prince Edward Island	Dec. 1, 1971	3.18	3.161	3.207	3.205	3.035	3.066
Nova Scotia	Apr. 1, 1974	1.86	2.108	2.142	2.249	2.118	2.022
New Brunswick	Apr. 1, 1974	2.04	2.202	2.234	2.236	2.103	2.003
Quebec	Dec. 1, 1970	89.27	79.936	81.073	81.050	76.244	72.529
Ontario	Dec. 1, 1970	67.49	52.268	53.055	53.062	50.046	47.749
Manitoba	July 1, 1972	8.89	6.518	6.613	6.613	6.226	5.930
Saskatchewan	July 1, 1972	6.67	4.339	4.402	4.404	4.145	3.948
Alberta	Apr. 1, 1972	16.33	11.191	11.354	11.358	10.690	10.182
British Columbia	Oct. 1, 1973	5.22	6.158	6.248	6.614	6.383	6.498
Total MSQ		**200.94**	**167.881**	**170.328**	**170.791**	**160.990**	**153.927**

[1] The total authorized MSQ level was adjusted to 170.748 million kilograms of butterfat during the 1988/89 dairy year with the MSQ levels for Nova Scotia and British Columbia being increased to 2.249 and 6.571 million kilograms of butterfat, respectively. Other minor adjustments were also made to the MSQ allotments of other provinces. The 170.791 million kilograms of butterfat, effective August 1, 1989, reflects a further refinement to the 1988/89 adjustment. These adjustments were made as a result of the recommendations on the National Plan put forth by the CMSMC Study Team.

CANADIAN REQUIREMENTS[2] FOR INDUSTRIAL MILK, 1986/87 - 1990/91
Dairy Year - August to July
(million hectolitres)

	Domestic Requirements[1]	Special Export Quota (Sleeve)	Canadian Requirements[2]	MSQ Dairy Year-End	Actual Production
1986/87	45.3	1.7	47.0	46.6	46.8
1987/88	45.9	1.3	47.2	47.3	48.5
1988/89	45.3	1.3	46.6	47.4	48.8
1989/90	44.1	1.3	45.4	46.1	47.0
1990/91	42.1	1.3	43.4	44.7	45.8

[1] Actual domestic disappearance of industrial milk for the dairy year including historical cheese exports under quota to the U.S. and EEC, but excluding cheese imports and the skim-off from fluid milk processing.

[2] Actual domestic requirements plus special export quota (sleeve).

Source: Canadian Dairy Commission

Table 13

UTILIZATION[1] OF MARKET SHARING QUOTA BY PROVINCE, 1986/87 - 1990/91
Dairy Year - August to July

Province	1986/87		1987/88		1988/89		1989/90		1990/91	
	Production Mkg B.F.	Utilization %	Production Mkg B.F.	Utilization %	Production Mkg B.F.	Utilization %	Production Mkg B.F.	Utilization %	Production Mkg B.F.	Utilization %
Prince Edward Island	3.188	100.9	3.207	100.0	3.172	98.9	3.172	101.9	3.076	101.4
Nova Scotia	2.322	110.2	2.309	107.9	2.237	99.5	2.293	105.0	2.293	108.3
New Brunswick	2.238	101.6	2.301	103.0	2.352	105.3	2.270	104.7	2.217	105.4
Quebec	80.169	100.3	82.765	102.1	83.479	103.0	80.154	101.9	76.840	100.8
Ontario	51.612	98.8	54.257	102.3	54.647	103.0	51.992	100.9	51.657	103.2
Manitoba	6.627	101.7	6.980	105.5	7.003	105.9	6.712	104.5	6.423	103.2
Saskatchewan	4.317	99.5	4.571	103.8	4.499	102.2	4.395	102.9	4.265	102.9
Alberta	11.591	103.6	11.737	103.4	11.453	100.9	11.416	103.6	11.226	105.0
British Columbia	6.401	103.6	6.572	105.2	6.716	102.2	6.718	104.6	6.731	105.4
Canada	**168.465**	**100.3**	**174.699**	**102.6**	**175.558**	**102.8**	**169.122**	**102.0**	**164.728**	**102.3**

[1] Total industrial milk and cream shipments as a per cent of authorized MSQ on July 31.

Source: Canadian Dairy Commission

Table 14

DISTRIBUTION OF LICENCED MILK PRODUCTION UNITS[1] IN ONTARIO BY MSQ UTILIZATION, 1981/82 and 1986/87 - 1990/91
Dairy Year - August to July

	1981/82		1986/87		1987/88		1988/89		1989/90		1990/91	
	Producers		Producers		Producers		Producers		Producers		Producers	
Per Cent of MSQ Utilized[2]	#	%	#	%	#	%	#	%	#	%	#	%
Less than 75	229	2.0	148	1.5	75	0.8	57	0.6	139	1.5	55	0.6
75 - 80	167	1.5	115	1.2	54	0.6	35	0.4	86	1.0	50	0.6
80 - 85	392	3.5	330	3.3	130	1.3	131	1.4	226	2.5	130	1.5
85 - 90	914	8.1	870	8.8	470	4.9	371	4.0	516	5.7	309	3.5
90 - 95	1,389	12.3	1,432	14.5	885	9.2	823	8.8	891	9.9	644	7.3
95 - 96	353	3.1	399	4.0	253	2.6	243	2.6	229	2.5	197	2.2
96 - 97	363	3.2	485	4.9	289	3.0	289	3.1	275	3.0	255	2.9
97 - 98	405	3.6	529	5.4	378	3.9	409	4.4	332	3.7	293	3.3
98 - 99	399	3.5	565	5.7	427	4.4	477	5.1	311	3.4	388	4.4
99 - 100	467	4.1	623	6.3	578	6.0	614	6.6	411	4.5	513	5.8
100 - 101	500	4.4	646	6.5	591	6.1	691	7.4	479	5.3	592	6.7
101 - 102	455	4.0	538	5.4	646	6.7	658	7.0	481	5.3	580	6.6
102 - 103	433	3.8	462	4.7	542	5.6	553	5.9	507	5.6	524	5.9
103 - 104	383	3.4	400	4.0	527	5.5	472	5.0	474	5.2	453	5.1
104 - 105	374	3.3	332	3.4	467	4.8	402	4.3	473	5.2	437	4.9
105 - 110	1,574	14.0	1,023	10.4	1,595	16.5	1,398	14.9	1,575	17.4	1,416	16.0
110 - 115	892	7.9	447	4.5	739	7.7	669	7.2	752	8.3	788	8.9
115 - 120	533	4.7	220	2.2	357	3.7	383	4.1	345	3.8	433	4.9
120 and greater	1,049	9.3	318	3.2	638	6.6	677	7.2	534	5.9	775	8.8
Total	**11,271**	**100.0**	**9,882**	**100.0**	**9,641**	**100.0**	**9,352**	**100.0**	**9,036**	**100.0**	**8,832**	**100.0**

[1] Includes only those licenced production units who shipped milk in the last month of the dairy year. Licenced production units with no MSQ have been excluded from the analysis.

[2] Licenced production units having utilizations falling on the upper boundary of the range are included in the next higher category. For example, a utilization of exactly 80% is included in the 80% - 85% category.

Note: Totals may not add exactly due to rounding.

Table 15

GROUP I QUOTA SALES[1] OVER THE EXCHANGE, 1986/87 - 1990/91
Dairy Year - August to July

Month	1986/87		1987/88		1988/89		1989/90		1990/91	
	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/litre)	Quantity Sold (litres)
August	295.10	3,387	278.10	6,327	246.00	4,980	274.00	4,816	250.00	6,486
September	305.10	5,810	275.10	8,838	259.25	6,910	270.00	13,165	257.00	9,460
October	300.00	9,128	260.00	5,194	271.10	9,072	250.00	7,786	264.00	9,525
November	295.00	6,020	234.00	4,843	271.00	7,549	224.00	8,296	260.00	10,219
December	290.00	7,449	236.01	7,535	272.15	9,377	225.00	9,694	270.00	6,790
January	290.00	6,703	251.50	4,961	277.13	8,667	248.00	8,048	285.40	5,734
February	288.00	5,464	285.00	3,077	283.00	12,606	242.00	11,117	305.10	4,922
March	280.00	4,360	279.00	6,280	278.00	8,956	235.00	12,992	309.00	13,255
April	259.00	4,884	269.00	12,098	260.00	11,456	231.00	12,203	305.00	10,380
May	224.75	7,802	265.00	8,245	249.00	11,857	230.00	8,859	306.00	9,710
June	235.00	7,919	270.10	7,345	255.00	9,939	239.00	11,297	310.05	7,865
July	265.10	2,956	250.00	4,183	270.00	7,760	249.00	8,922	312.06	6,449
Total		**71,882**		**78,926**		**109,129**		**117,195**		**100,795**
12-Month Weighted Average	**276.12**		**263.52**		**266.60**		**242.14**		**286.57**	

[1] Total litres sold by producers, less 15 per cent transfer assessment.

UNUSED MARKET SHARING QUOTA SALES[1] OVER THE EXCHANGE, 1986/87 - 1990/91

Dairy Year - August to July

Month	1986/87		1987/88		1988/89		1989/90		1990/91[2]	
	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/kg)	Quantity Sold (kg)
August	.800	1,537,545	.700	1,319,799	.600	1,095,334	.650	1,738,868	-	-
September	.804	1,932,811	.599	1,620,419	.651	1,602,454	.610	2,131,850	12.56	72,033
October	.851	1,261,926	.600	2,518,501	.721	1,640,952	.529	1,619,339	12.50	117,267
November	.890	1,103,721	.563	1,599,387	.801	1,575,434	.400	2,871,444	13.10	108,908
December	.800	1,054,330	.601	1,661,306	.800	1,827,420	.460	3,475,003	14.30	96,943
January	.800	2,050,815	.714	1,148,120	.850	2,189,830	.600	2,162,943	17.21	55,594
February	.800	2,060,416	.960	690,956	.920	2,570,321	.680	2,750,389	25.00	54,275
March	.800	2,201,814	1.030	2,818,775	.920	3,257,262	.649	1,971,711	26.10	123,612
April	.775	2,211,153	.999	2,054,714	.850	3,187,864	.599	2,852,353	27.00	107,364
May	.753	2,920,976	.940	2,762,379	.851	4,451,445	.635	3,797,965	28.50	115,051
June	.760	3,904,294	.965	4,526,162	.920	4,252,194	.700	6,116,851	28.15	107,068
July	.812	3,671,403	.900	3,235,168	.980	4,340,321	.646	4,414,344	26.95	89,284
Total		**25,911,204**		**25,955,686**		**31,990,831**		**35,903,060**		**1,047,419**
12-Month Weighted Average	**.795**		**.833**		**.859**		**.605**		**21.31**	

[1] Total litres sold by producers, less 15 per cent transfer assessment.

[2] Effective August 1st, 1990, market sharing quotas (MSQ) issued in kilograms of butterfat instead of litres of milk. To allow time for the conversion, the August, 1990 quota exchange for unused MSQ was cancelled.

Table 16

USED MARKET SHARING QUOTA SALES[1] OVER THE EXCHANGE, 1986/87 - 1990/91
Dairy Year - August to July

Month	1986/87		1987/88		1988/89		1989/90		1990/91[3]	
	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/litre)	Quantity Sold (litres)	Market-Clearing Price ($/kg)	Quantity Sold (kg)
August[2]	-	-	-	-	-	-	-	-	-	-
September[2]	-	-	-	-	-	-	-	-	-	-
October	.630	49,502	.530	77,980	.550	67,389	.504	108,236	10.50	2,118
November	.614	281,193	.400	173,561	.500	175,022	.400	291,919	9.10	8,919
December	.610	503,455	.470	546,206	.500	654,623	.405	650,215	10.00	35,560
January	.600	544,030	.559	386,938	.550	924,115	.450	534,034	10.00	25,300
February	.590	538,117	.700	321,505	.550	1,124,911	.420	805,735	13.16	33,088
March	.600	1,199,584	.600	525,749	.560	1,840,125	.440	1,980,207	15.20	57,687
April	.620	1,619,926	.619	2,212,488	.530	1,953,991	.462	1,747,328	15.00	79,351
May	.590	1,168,994	.654	1,829,986	.500	2,958,161	.470	2,176,477	16.00	95,426
June	.560	1,743,306	.673	1,646,614	.551	2,898,745	.470	2,671,829	16.67	129,734
July	.660	610,211	.696	1,661,667	.635	1,936,094	.499	3,166,336	18.05	84,698
Total		**8,256,318**		**9,382,694**		**14,533,176**		**14,134,318**		**551,861**
12-Month Weighted Average	**.601**		**.635**		**.547**		**.464**		**15.28**	

Table 17

[1] Total litres sold by producers, less 15 per cent transfer assessment.

[2] No exchanges are held for used MSQ in August or September.

[3] Effective August 1st, 1990, market sharing quotas (MSQ) issued in kilograms of butterfat instead of litres of milk.

SUMMARY OF GROUP I QUOTA TRANSFERRED IN SOUTHERN ONTARIO, 1986/87 - 1990/91
(12-month period July to June)

Table 18

	1986/87		1987/88		1988/89		1989/90		1990/91	
	Litres	% of Total Transferred	Litres	% of Total Transferred	Litres	% of Total Transferred	Litres	% of Total Transferred	Litres	% of Total Transferred
Within-Family On-Going Operations	239,347	73.4	238,210	72.1	205,892	62.8	213,225	61.9	184,670	62.4
	10,413	3.2	14,232	4.3	16,156	4.9	15,136	4.4	8,041	2.7
Sub-Total	249,760	76.6	252,442	76.4	222,048	67.7	228,361	66.3	192,711	65.1
Sales	76,313	23.4	78,042	23.6	105,917	32.3	116,299	33.7	103,263	34.9
Total Transferred	326,073	100.0	330,484	100.0	327,965	100.0	344,660	100.0	295,974	100.0
Total Transferred as Per Cent of Total Group I in the System	9.44		9.57		9.51		10.03		8.65	

Note:

1. Southern Ontario Group I Quota in System:

	Litres	Date of Board Order
1986/87	3,453,255	August 1, 1986
1987/88	3,452,579	August 1, 1987
1988/89	3,447,557	August 1, 1988
1989/90	3,435,136	August 1, 1989
1990/91	3,422,393	August 1, 1990

Table 19

SUMMARY OF MARKET SHARING QUOTA TRANSFERRED IN ONTARIO, 1986/87 - 1990/91
(12-month period July to June)

	1986/87		1987/88		1988/89		1989/90		1990/91[1]	
	Litres	% of Total Transferred	Litres	% of Total Transferred	Litres	% of Total Transferred	Litres	% of Total Transferred	Kilograms	% of Total Transferred
Within-Family	85,716,001	68.2	92,083,841	69.6	82,300,336	61.3	82,969,491	60.6	2,512,942	57.8
On-Going Operations	4,381,290	3.5	5,433,395	4.1	6,687,267	5.0	5,242,129	3.8	108,688	2.5
Sub-Total	90,097,291	71.7	97,517,236	73.7	88,897,603	66.3	88,211,620	64.4	2,621,630	60.3
Sales	35,478,958	28.3	34,750,102	26.3	45,277,304	33.7	48,724,351	35.6	1,727,915	39.7
Total Transferred	125,576,249	100.0	132,267,338	100.0	134,264,907	100.0	136,935,971	100.0	4,349,545	100.0
Total Transferred as Per Cent of Total MSQ in the System	9.84		10.36		10.54		11.16		9.29	

[1] Effective August 1, 1990, market sharing quotas (MSQ) issued in kilograms of butterfat instead of litres of milk.

Note:

1. Total issued MSQ in the System*:

	Litres	Date of Board Order
1986/87	1,276,000,000	July 1, 1987
1987/88	1,277,000,000	July 1, 1988
1988/89	1,274,000,000	July 1, 1989
1989/90	1,227,000,000	July 1, 1990
	Kilograms	
1990/91	46,815,000	July 1, 1991

* Does not reflect MSQ held in reserve for Thunder Bay.

Table 20

ONTARIO DAIRY COW AND HEIFER POPULATION, 1982 - 1991 July 1st (thousand head)

	Dairy Cows[1]	Dairy Heifers[2]
1982	562	282
1983	539	270
1984	535	274
1985	507	275
1986	470	253
1987	465	240
1988	465	240
1989	455	235
1990	440	228
1991	430	225

1 All females which have calved, kept mainly for milk purposes. Cows on cream farms are included.

2 All females, one year old or older, which have never calved, raised for dairy herd replacement. Heifers on cream farms are included.

Source: Catalogue No. 23-008, Livestock Report, Statistics Canada

Table 21

ESTIMATED MILK SOLD PER DAIRY COW ON ONTARIO DAIRY FARMS[1], 1986/87 - 1990/91
Dairy Year - August to July

	1986/87	1987/88	1988/89	1989/90	1990/91
Marketings ('000 Litres)					
Milk	2,313,294	2,392,434	2,390,500	2,342,988	2,344,041
Cream[2]	95,592	97,356	93,595	79,554	76,854
Total	2,408,886	2,489,790	2,484,095	2,422,542	2,420,895
Dairy Cow Population[3] ('000 head)	467.5	465.0	460.0	447.5	435.0
Estimated Milk Sold Per Dairy Cow[4] (litres)	5,153	5,354	5,400	5,414	5,565

[1] Milk and Cream Farms.

[2] Farm separated cream is expressed as milk equivalent (3.6 kg/hl butterfat).

[3] Average of July 1st, dairy cow numbers for consecutive dairy years.

For example: Dairy Cow Population for 1986/87 Dairy Year =
(July 1st, 1986 Dairy Cow Population + July 1st, 1987 Dairy Cow Population) /2.

[4] Estimated by dividing total milk and cream marketed by dairy cow population.

DOMESTIC EXPORTS OF DAIRY CATTLE LADEN IN ONTARIO[1], 1986 - 1991 (Calendar Year)

Year		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Year-to -Year % Change
1986	Purebred[2]	3,817	4,470	3,514	4,207	16,008	- 1.7
	Grade[3]	2,812	4,064	2,516	2,556	11,948	+ 7.4
		6,629	8,534	6,030	6,763	27,956	+ 2.0
1987	Purebred	2,192	3,979	2,739	3,304	12,214	- 23.7
	Grade	2,557	2,496	2,331	1,817	9,201	- 23.0
		4,749	6,475	5,070	5,121	21,415	- 23.4
1988[4]	Purebred	2,640	3,910	2,443	3,950	12,943	n.a.
	Grade	1,292	1,741	665	1,119	4,817	n.a.
		3,932	5,651	3,108	5,069	17,760	n.a.
1989	Purebred	1,941	3,942	2,402	4,258	12,543	- 3.1
	Grade	1,184	3,165	2,837	3,927	11,113	+ 130.7
		3,125	7,107	5,239	8,185	23,656	+ 33.2
1990	Purebred	1,509	3,299	2,460	1,894	9,162	- 27.0
	Grade	1,221	2,381	3,857	1,977	9,436	- 15.1
		2,730	5,680	6,317	3,871	18,598	- 21.4
1991	Purebred	1,984	1,832				
	Grade	2,261	2,140				
		4,245	3,972				

[1] Dairy calves for veal purpose (i.e. calves - 200 pounds and under) are excluded. Laden in Ontario refers to Ontario as the province at which cattle destined for export are first placed aboard a means of transportation (not necessarily the exporting carrier). Province of lading statistics reflect the province in which export cattle are raised.

[2] Purebred dairy cattle for breeding purposes, (mainly cows and heifers, some bulls).

[3] Grade dairy cattle over 200 pounds (for herd replacement).

[4] Export statistics from 1988 forward are coded under the new Harmonized System, and therefore, are not directly comparable to previous years.

n.a. not available

Source: External Trade Division, Statistics Canada.

Table 23

DAIRY CATTLE BREEDINGS:
WESTERN ONTARIO, UNITED, AND EASTERN BREEDERS - COMBINED,
1986 - 1991
(Calendar Year)

	1986		1987		1988		1989		1990		1991	
	#	% Change	#	% Change	#	% Change	#	% Change	#	% Change	#	% Change
January	35,943	- 1.8	35,503	- 1.2	33,922	- 4.5	33,386	- 1.6	33,270	- 0.3	31,599	- 5.0
February	32,577	- 0.6	31,936	- 2.0	31,230	- 2.2	30,312	- 2.9	28,567	- 5.8	27,942	- 2.2
March	34,570	- 5.6	35,068	+1.4	33,663	- 4.0	31,714	- 5.8	32,092	+ 1.2	28,574	-11.0
April	32,416	- 1.8	30,488	- 5.9	30,158	- 1.1	29,899	- 0.9	28,793	- 3.7	27,932	- 3.0
May	31,898	- 3.7	32,603	+2.2	30,055	- 7.8	28,563	- 5.0	29,104	+ 1.9	26,335	- 9.5
June	35,804	- 4.0	32,175	- 10.1	31,526	- 2.0	30,191	- 4.2	29,578	- 2.0	27,122	- 8.3
July	30,416	- 3.7	28,060	- 7.7	27,524	- 1.9	25,299	- 8.1	26,220	+ 3.6	25,592	- 2.4
August	27,168	- 4.9	30,210	+11.2	25,881	- 14.3	25,721	- 0.6	24,658	- 4.1	24,269	- 1.6
September	27,528	- 0.0	27,590	+0.2	28,762	+ 4.2	26,400	- 8.2	25,022	- 5.2	24,457	- 2.3
October	27,650	- 6.0	27,756	+0.4	27,844	+ 0.3	27,406	- 1.6	26,277	- 4.2		
November	30,376	- 1.7	30,250	- 0.4	29,513	- 2.4	29,147	- 1.2	27,861	- 4.4		
December	35,737	+1.3	34,159	- 4.4	32,924	- 3.6	31,183	- 5.3	29,606	- 5.1		
Total	**382,083**	**- 2.7**	**375,798**	**- 1.6**	**363,002**	**- 3.4**	**349,221**	**- 3.8**	**341,048**	**- 2.3**		

Sources: Western Ontario Breeders Inc. - 1st Services Only
United Breeders Inc. - 1st Services
Eastern Breeders Inc. - Total Dairy Cow Services

Table 24

SUMMARY OF MILK RECORDING PROGRAMS IN ONTARIO, 1981 AND 1986-1990

	1981	1986	1987	1988	1989	1990
Number of Herds: (December 31st)						
DHI[1] Supervised	1,723	5,095	4,657	4,447	4,261	3,948
DHI Owner-Sampler	1,778	1,367	1,368	1,302	1,258	1,235
DHI Alternate AM/PM	-	622	759	740	749	696
ROP[2]	2,657	-	-	-	-	-
Total	6,158	7,084	6,784	6,489	6,268	5,879
Number of Cows: (December 31st)						
DHI Supervised	79,076	222,424	218,808	211,102	202,599	185,390
DHI Owner-Sampler	71,500	54,407	53,305	50,163	48,757	49,394
DHI Alternate AM/PM	-	34,237	36,319	35,768	36,124	33,111
ROP (Number of Records[3])	100,152	-	-	-	-	-
Total	250,728	311,068	308,432	297,033	287,480	267,895
Average Herd Size: (hd.) (December 31st)						
DHI Supervised	46	45	46	47	48	47
DHI Owner-Sampler	40	37	38	39	39	40
DHI Alternate AM/PM	-	46	47	48	48	48
Total	43	43	45	46	46	46
Average Milk Production Per Cow: (kg)						
DHI Supervised	5,955	6,786	6,680	6,876	7,069	7,268
DHI Owner-Sampler	5,279	5,834	5,892	6,116	6,385	6,609
ROP	6,226	-	-	-	-	-
Average Fat Production: (kg)						
DHI Supervised	218	254	253	260	268	275
DHI Owner-Sampler	192	217	220	229	241	252
ROP	243	-	-	-	-	-
Average BCA[4] Milk:						
DHI Supervised	128	145	144	149	154	155
ROP	134	-	-	-	-	-

Table 24 (cont'd)

SUMMARY OF MILK RECORDING PROGRAMS IN ONTARIO, 1981 AND 1986-1990

	1981	1986	1987	1988	1989	1990
Average BCA Fat:						
DHI Supervised	125	145	145	150	156	156
ROP	138	-	-	-	-	-
Average Calving Interval: (Months)						
DHI Supervised	13.2	13.2	13.1	n.a.	n.a.	n.a.
DHI Owner-Sampler	13.0	12.8	12.8	n.a.	n.a.	n.a.
Somatic Cell Counting:						
DHI Cows	41,700	150,298	144,362	155,962	174,474	185,975
DHI Herds	970	3,345	3,140	3,371	3,776	3,954
Average Protein Production: (kg)						
DHI Supervised	190	216	215	223	230	231
DHI Owner-Sampler	155	184	186	195	204	208

1 DHI (Dairy Herd Improvement) is a milk recording and herd management service offered by the Ontario Dairy Herd Improvement Corporation.

2 ROP (Record of Performance) is a milk recording program operated by Agriculture Canada. Effective July 1, 1985, the Ontario Improvement Corporation (ODHIC) and the Record of Performance (ROP) milk recording services consolidated with ODHIC assuming the responsibility for servicing all ROP herds. Data processing consolidation took place on January 1, 1986.

3 Number of records refers to the number of cows enrolled in ROP during the year for which complete lactation records are available.

4 BCA: Breed Class Average.

n.a. not available

Sources: Agriculture Canada
Ontario Dairy Herd Improvement Corporation

Table 25

PROVINCIAL SOMATIC CELL COUNTS, 1986/87 - 1990/91
Average S.C.C. (in thousands)

PER CENT OF TOTAL PRODUCERS IN FOUR S.C.C. RANGES, 1990/91

Dairy Year	1986/87	1987/88	1988/89	1989/90	1990/91	Less than 300,000	300,000-499,000	500,000-749,000	750,000 & over
August	402	393	411	366	379	45.2	32.5	15.5	6.8
September	381	382	362	352	378	45.1	32.7	15.5	6.7
October	348	368	373	345	346	51.9	30.2	12.8	5.1
November	422	401	371	355	324	57.6	26.5	11.3	4.6
December	354	457	393	336	282	65.8	23.2	8.4	2.6
January	347	399	372	336	271	68.4	21.7	7.4	2.5
February	416	381	335	336	263	69.8	21.0	6.6	2.6
March	355	348	308	326	260	69.6	21.0	6.8	2.6
April	335	326	326	333	264	68.9	21.3	7.3	2.5
May	333	340	311	359	273	66.7	22.5	8.2	2.6
June	345	354	318	330	280	64.8	24.0	8.6	2.6
July	358	372	348	345	304	59.7	26.9	10.0	3.4
12-Month Simple Average	**366**	**377**	**352**	**343**	**302**	**61.1**	**25.3**	**9.9**	**3.7**

MILK QUALITY PROGRAM IN ONTARIO

Producers are penalized for violations of the quality standards at rates of increasing $/hl applied to total monthly marketings depending on whether it is the first, second, etc. offence within a consecutive 12-month period. The monthly cheque statement provides information on the bacteria count, SCC, freezing point information, and the presence or absence of inhibitors. Producers are advised as soon as results are available when tests are near or at the penalty levels.

Bacteria:

If a milk sample contains 100,000 bacteria per millilitre or more in 2 out of 3 consecutive months a penalty is applied. A producer is shut-off at the 6th penalty level. One random sample is tested per month for bacteria.

Inhibitors:

A positive test results in a penalty. After any infraction, a producer's milk is held under detention until a negative test is obtained. Two random samples per month are tested for inhibitors.

Somatic Cell Counts:

If a milk sample contains 700,000 cells per millilitre or more in 3 out of 4 consecutive months, a penalty is applied. When the program commenced on August 1, 1989, the penalty level was 800,000. The penalty level is being reduced by 50,000 per year until 1995 when the penalty level will reach and be maintained at 500,000 cells per millilitre.

Freezing Point:

A penalty is applied when the freezing point is -.524 degrees Hortvet or higher. A producer is shut-off at the 4th penalty level. Milk samples are tested 3 or 4 times per year for freezing point.

Non Grade A Premises:

If premises are not grade A standard, there is a penalty applied on all milk marketed during the first 30 days of not meeting standards, with the rate increasing in each of the next two consecutive 30-day periods of not meeting standards. The offending producer is shut-off if not in compliance after 90 days.

MILK QUALITY PROGRAM IN ONTARIO, 1986/87 - 1990/91
Dairy Year - August to July

	1986/87[2]	1987/88[3]	1988/89	1989/90	1990/91
Penalty Levels[1] ($ per hectolitre)					
Bacteria					
1st Offense	1	1	1	1	1
2nd Offense	1	1	1	2	2
3rd Offense	3	3	3	3	3
4th Offense	3	3	3	4	4
5th Offense & Subsequent	5	5	5	5	5
Inhibitor					
1st Offense	4	4	4	4	4
2nd Offense	6	6	6	6	6
3rd Offense	9	9	9	9	9
4th Offense	12	12	12	12	12
Somatic Cell[4]					
1st Offense	-	-	-	1	1
2nd Offense	-	-	-	2	2
3rd Offense	-	-	-	3	3
4th Offense	-	-	-	4	4
5th Offense & Subsequent	-	-	-	5	5
Freezing Point					
1st Offense	2	2	2	2	2
2nd Offense	4	4	4	4	4
3rd Offense	6	6	6	6	6
4th Offense	8	8	8	8	8
Non Grade A Premises					
1 - 30 Days	2	2	2	2	2
31 - 60 Days	4	4	4	4	4
61 - 90 Days	8	8	8	8	8

[1] Penalties for each offense apply on total monthly shipments of the producer.
[2] Inhibitor penalties increased in November ,1986.
[3] Freezing point testing temporarily interrupted during 1987/88 while a new sample vial holder and case were being manufactured and field tested.
[4] Somatic cell count penalty program introduced August 1, 1989.

MILK QUALITY PROGRAM IN ONTARIO, 1986/87 - 1990/91
Dairy Year - August to July

	1986/87	1987/88[3]	1988/89	1989/90	1990/91
Per Cent of Producers Penalized Per Month					
Bacteria	0.46	0.39	0.44	0.33	0.29
Inhibitors	0.41	0.37	0.30	0.26	0.27
Somatic Cell	-	-	-	1.17	1.17
Freezing Point	0.22	-	0.06	0.24	0.13
Non Grade A	0.08	0.05	0.06	0.10	0.07
Per Cent of Milk Volume Penalized					
Bacteria	0.33	0.29	0.31	0.23	0.21
Inhibitors	0.47	0.49	0.35	0.32	0.33
Somatic Cell	-	-	-	0.71	0.59
Freezing Point	0.17	-	0.05	0.17	0.10
Non Grade A	0.01	0.01	0.02	0.02	0.02
Penalties Collected (thousand dollars)					
Bacteria	104	91	95	84	72
Inhibitors	413	494	357	320	347
Somatic Cell	-	-	-	411	442
Freezing Point	93	-	25	94	54
Non Grade A	9	10	15	15	14
Total	619	595	492	924	929
Average Number of Producers per Month	10,053	9,828	9,600	9,259	9,030
Total Volume of Milk Produced (billion litres)	2.313	2.392	2.390	2.344	2.344

CLASSIFICATION OF MILK SOLD TO ONTARIO PROCESSING PLANTS[1]

Class 1	-	fluid milk
Class 2	-	concentrated liquid milk
Class 3	-	fluid creams, cottage cheese, yogurt, beverage yogurt, kefir, egg nog, and fluid plant inventories
Class 4	-	ice cream mixes, confectionary products, puddings, soups, sterilized infant foods, milk shake, yogurt shake, yogurt ice cream, frozen yogurt, yogurt ice milk
Class 4(a)	-	specialty cheese
Class 4(b)	-	brick and colby cheese
Class 4(c)	-	sterilized milk for export
Class 5	-	butter, casein, condensed and evaporated milk, skim milk powder, whole milk powder, fluid plant losses up to two per cent, and industrial plant inventories
Class 5(a)	-	cheddar cheese
Class 6	-	new products

[1] For a more detailed list of products and their classes, see Ontario Regulation 622 under the Milk Act.

CLASS 1 and 2 PRICE CHANGES, 1982 - 1991[1] (at 3.6 kg of butterfat/hl)

Date of Price Change	Class 1 S. Ontario $/hl	Resulting Price Class 1 N. Ontario $/hl		Class 2 $/hl	Actual Price Increase $/hl	% Change S. Ontario
1982 - Oct. 18	46.48	47.77		45.48	2.62	+6.0
1984 - Jan.16	49.48	50.77		48.48	3.00	+6.4
		N. Ontario Thunder Bay	Kenora Rainy River			
- May 1[2]	n.c.	50.77	52.77	n.c.	-	-
- Dec. 31	52.48	53.77	55.77	51.48	3.00	+6.1
1985 - Apr. 1	52.51	53.80	55.80	51.51	0.03	+0.1
1988 - May 1	54.51	55.80	57.80	53.51	2.00	+3.8
1989 - May 15	54.45	55.74	57.74	53.45	-0.06	- 0.1
1990 - Sept. 3	56.95	58.24	60.24	55.95	2.50	+4.6

[1] Class 1 and 2 prices have not changed since September 3, 1990.

[2] Northern Ontario base price pool was split on May 1, 1984: 1) Northern Ontario, Thunder Bay Pools; and, 2) Kenora-Rainy River Pool. An increase of $2.00 per hectolitre was made May 1, 1984 for the Kenora-Rainy River Pool to help offset the high transportation costs in that Pool and to bring producers' farm-gate returns more in line with those in the rest of Northern Ontario.

n.c. no change

CLASS 3, 4 and 4(c) PRICE CHANGES, 1982 - 1991 (at 3.6 kg of butterfat/hl)

Date of Price Change		Resulting Price Class 3 $/hl	Class 4 $/hl	Class 4(c) $/hl	Actual Price Increase $/hl
1982	- January 1	36.76	36.42	36.42	1.52
	- August 1	38.19	37.85	37.85	1.43
1983	- January 1	38.57	38.23	38.23	0.38
	- April 1	39.07	38.73	38.73	0.50
	- August 1	40.21	39.87	39.87	1.14
1984	- January 1	40.59	40.25	40.25	0.38
	- April 1	41.48	41.14	41.14	0.89
	- August 1	42.29	41.95	41.95	0.81
1985	- April 1	42.32	41.98	41.98	0.03
	- August 16	43.54	43.20	43.20	1.22
1986	- August 1	44.46	44.12	44.12	0.92
1988	- February 1	45.04	44.70	44.70	0.58
1989	- May 15	44.98	44.64	44.64	-0.06
	- August 1	45.55	45.21	45.21	0.57
1990	- August 1	46.98	46.64	46.64	1.43
1991	- August 1	48.46	48.12	48.12	1.48

CLASS 4(a) PRICE CHANGES, 1982 - 1991 (at 3.6 kg of butterfat/hl)

Date of Price Change		Resulting Price $/hl	Actual Price Increase (Decrease) $/hl
1982	- January 15	35.04	2.28
	- August 15	36.52	1.48
1983	- January 15	36.92	0.40
	- April 15	37.19	0.27
	- August 15	38.38	1.19
1984	- January 15	38.77	0.39
	- April 15	39.45	0.68
	- August 15	40.30	0.85
1985	- April 15	40.33	0.03
	- September 1	41.40	1.07
	- October 1	41.45	0.05
1986	- August 1	41.40	-0.05
	- August 15	42.23	0.83
1988	- February 15	42.84	0.61
1989	- May 15	42.78	-0.06
	- August 15	43.18	0.40
1990	- August 15	44.47	1.29
1991	- August 15	45.75	1.28

CLASS 4(b) PRICE CHANGES, 1982 - 1991 (at 3.6 kg of butterfat/hl)

Date of Price Change		Resulting Price $/hl	Actual Price Increase (Decrease) $/hl
1982	- January 15	35.04	1.97
	- August 15	36.52	1.48
1983	- January 15	36.92	0.40
	- April 15	37.19	0.27
	- August 15	38.38	1.19
1984	- January 15	38.77	0.39
	- April 15	39.45	0.68
	- August 15	40.30	0.85
1985	- April 15	40.33	0.03
	- September 1	41.40	1.07
	- October 1	41.45	0.05
1986	- August 1	41.40	-0.05
	- August 15	42.23	0.83
1988	- February 15	42.84	0.61
1989	- May 15	42.78	-0.06
	- August 15	43.18	0.40
1990	- August 15	44.47	1.29
1991	- August 15	45.75	1.28

CLASS 5 and CLASS 6 PRICE CHANGES, 1982 - 1991 (at 3.6 kg of butterfat/hl)

Date of Price Change		Resulting Price Class 5 $/hl	Resulting Price Class 6 $/hl	Actual Price Increase (Decrease) $/hl
1982	- January 1	33.28	33.28	1.55
	- August 1	34.71	34.71	1.43
	- October 6	34.69	34.69	-0.02
1983	- January 1	35.07	35.07	0.38
	- April 1	35.33	35.33	0.26
	- August 1	36.47	36.47	1.14
1984	- January 1	36.85	36.85	0.38
	- April 1	37.50	37.50	0.65
	- August 1	38.32	38.32	0.82
1985	- April 1	38.35	38.35	0.03
	- August 16	39.38	39.38	1.03
	- October 1	39.43	n.c.	0.05
	- October 15	n.c.	39.43	0.05
1986	- August 1	40.26	40.26	0.83
1987	- August 1	40.18	40.18	-0.08
1988	- February 1	40.76	40.76	0.58
1989	- May 15	40.70	40.70	-0.06
	- August 15	41.09	41.09	0.39
1990	- August 1	42.33	42.33	1.24
1991	- August 1	43.56	43.56	1.23

n.c. no change

CLASS 5(a) PRICE CHANGES, 1982 - 1991 (at 3.6 kg of butterfat/hl)

Date of Price Change	Resulting Price $/hl	Actual Price Increase (Decrease) $/hl
1982 - February 1	33.69	1.56
- September 1	35.12	1.43
1983 - February 1	35.50	0.38
- May 1	35.76	0.26
- September 1	36.90	1.14
1984 - February 1	37.28	0.38
- May 1	37.93	0.65
- September 1	38.75	0.82
1985 - April 1	38.78	0.03
- September 1	39.33	0.55
- October 1	39.86	0.53
1986 - August 1	39.89	0.03
- September 1	40.69	0.80
1987 - August 1	40.61	-0.08
1988 - March 1	41.19	0.58
1989 - May 15	41.13	-0.06
- September 1	41.52	0.39
1990 - September 1	42.76	1.24
1991 - September 1	43.99	1.23

CLASSES 1-2 PRODUCER PAYMENT PERCENTAGES OF GROUP I QUOTA SHIPMENTS, SOUTHERN ONTARIO, 1981/82 and 1986/87 - 1990/91
Payment Percentage
Dairy Year - August to July

Month	1981/82 %	1986/87 %	1987/88 %	1988/89 %	1989/90 %	1990/91 %
August	68.69	70.23	70.57	71.34	73.74	74.21
September	71.97	73.89	75.74	77.97	78.28	74.83
October	75.67	74.40	78.69	74.64	74.74	76.45
November	71.21	73.40	74.36	75.81	76.48	78.01
December	71.88	71.43	74.20	74.74	73.24	74.44
January	71.58	75.21	73.11	73.41	74.64	76.04
February	72.39	74.03	75.32	74.92	75.34	75.84
March	71.93	72.03	77.27	77.25	77.58	75.77
April	73.10	71.98	75.04	72.89	73.58	76.12
May	68.97	72.55	71.10	73.72	74.05	73.62
June	69.39	71.75	71.90	74.91	74.94	72.24
July	69.70	72.00	70.35	68.09	69.37	70.95
Dairy Year Average	**71.37**	**72.74**	**73.97**	**74.14**	**74.67**	**74.88**

ONTARIO EXCLUSION FACTOR[1], 1981/82 AND 1986/87 - 1991/92 (Per Cent)

1981/82	106.5
1986/87	107.8
1987/88	108.0
1988/89	108.1
1989/90	108.4
1990/91	109.1
1991/92	109.3

[1]The exclusion factor is used to calculate the volume of milk to be excluded from MSQ shipments in Ontario under the national supply management program. The adjustment is made to the Ontario Class 1 sales volume to make it conform to the national definition of fluid milk which includes fluid creams and the skim-off left over from the processing of Class 1 milk and cream products in addition to the actual Class 1 sales volume. The difference between the adjusted Class 1 and 2 sales volume and actual Class 1 and 2 sales volume is paid for at the Ontario Class 3-6 blend price for industrial milk. No direct payment is paid on this volume nor are any MSQ levies deducted.

CLASSES 3-6 PRODUCER BLEND PAYMENT PRICES, SOUTHERN ONTARIO, 1981/82 and 1986/87 - 1990/91

Price ($ per hectolitre at 3.6 kg of butterfat/hl)
Dairy Year - August to July

Month	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
August	32.051	41.319	41.641	42.898	43.288	44.110
September	32.566	41.847	41.747	42.217	42.750	44.041
October	32.594	41.885	41.648	42.345	42.890	43.966
November	32.856	41.915	41.922	42.393	42.869	44.095
December	32.714	41.763	41.782	42.218	42.660	43.907
January	33.794	41.779	41.772	42.257	42.658	43.972
February	34.443	41.731	42.275	42.862	43.387	44.732
March	34.487	41.793	42.266	42.171	42.480	43.795
April	34.246	41.702	42.089	42.105	42.595	43.732
May	34.224	41.592	42.189	42.176	42.741	43.762
June	34.161	41.626	42.114	42.141	42.645	43.697
July	34.212	41.730	42.128	42.256	42.485	43.857
12-Month Weighted Average	**33.577**	**41.710**	**41.974**	**42.332**	**42.773**	**43.957**

ONTARIO PRODUCER GROSS AND NET RETURNS FOR FLUID AND INDUSTRIAL MILK MARKETINGS UNDER QUOTA, 1986/87 - 1990/91

Dairy Year - August to July

($ per hectolitre)

	1986/87	1987/88	1988/89	1989/90	1990/91
(a) **Gross Returns**[1]					
August	50.520	50.334	52.152	52.688	53.188
September	52.241	51.854	53.178	53.386	55.223
October	52.897	52.977	54.173	54.535	56.732
November	52.924	52.962	54.167	54.592	56.705
December	52.610	52.573	53.914	54.354	56.274
January	52.455	52.373	53.754	53.950	56.274
February	52.427	52.782	54.167	54.156	56.377
March	52.173	52.827	53.244	53.822	55.847
April	51.681	52.352	54.060	53.545	55.432
May	51.175	52.716	53.060	53.215	54.839
June	50.665	51.927	52.588	51.927	53.137
July	51.068	52.060	51.167	51.839	52.304
12-Month Average	**51.903**	**52.311**	**53.304**	**53.501**	**55.194**
(b) **Net Returns**[1,2]					
August	44.825	44.974	47.654	48.283	48.101
September	46.716	46.662	48.763	49.042	50.172
October	47.519	47.914	49.757	50.186	51.764
November	47.548	47.833	49.770	50.259	51.770
December	47.136	47.387	49.470	49.951	51.234
January	46.970	47.127	49.362	49.424	51.087
February	46.794	47.564	49.717	49.542	51.124
March	45.413	47.621	48.817	49.217	50.590
April	45.817	47.050	49.571	48.879	50.157
May	45.273	47.354	48.619	48.568	49.546
June	44.781	46.601	48.179	49.296	47.871
July	45.445	46.902	46.815	47.188	47.076
12-Month Average	**46.270**	**47.082**	**48.875**	**48.986**	**50.041**

[1] Including direct payment on industrial milk.

[2] Net of transportation, administration, promotion, ODHIC, within-quota levy deductions, and skim-off levy deductions.

ONTARIO BUTTERFAT DIFFERENTIAL[1], 1982 - 1991

Effective Date		Price Differential $/hl
1982	- January 1	.5294
	- August 1	.5514
	- October 6	.5511
1983	- January 1	.5578
	- April 1	.5608
	- August 1	.5794
1984	- January 1	.5862
	- April 1	.5977
	- August 1	.6096
1985	- August 16	.6275
1986	- August 1	.6408
1988	- February 1	.6504
1989	- March 1	.6479
	- May 15	.6469
	- August 1	.6514
1990	- August 1	.6720
1991	- August 1	.6784

[1] Price differential for each 0.1 kg variation in butterfat above or below 3.6 kg/hl for all classes of milk.

INDUSTRIAL SUPPORT PRICE STRUCTURE, 1982 AND 1987 - 1991 AUGUST 1st

	1982	1987	1988	1989	1990	1991
Federal Support Price per kg						
Butter	$4.330	$5.035	$5.102	$5.167	$5.331	$5.331
Skim Milk Powder	2.590	2.978	3.013	3.046	3.130	3.304
Market Price Guarantee[1] per hl	$40.05	$46.29	$48.23	$48.57	$50.00	$51.39
Assumed Processor Margin per hl	-5.06	-5.84	-7.20	-7.15	-7.34	-7.52
Estimated Producer Market Returns per hl	34.99	40.45	41.03	41.42	42.66	43.87
Direct Payment per hl	+6.03	+6.03	+6.03	+6.03	+6.03	+6.03
Target Returns Level per hl	$41.02	$46.48	$47.06	$47.45	$48.69	$49.92[3]
Domestic Butter Program[2] Charges Built into Target Returns Level per hl	-	$0.18	$0.14	$0.14	$0.14	$0.14

[1] Market Price Guarantee = (Butter Support Price x yield factor) + Skim Milk Powder Support Price x yield factor). The yield factors represent the amount of butter and skim milk powder that can be manufactured from one hectolitre of milk at 3.6 kilograms of butterfat per hectolitre. As of August 1, 1988, the standard product yields were increased to 4.41 kilograms for butter and 8.54 kilograms for skim milk powder from 4.32 kilograms and 8.24 kilograms respectively. The standard product yield for butter was subsequently reduced to 4.365 kilograms as of August 1, 1989. The skim milk powder yield was revised to 8.51 kilograms per hectolitre of milk as of August 1, 1991.

[2] Since August, 1986, the target returns level has included a pass-through charge to consumers to finance the storage and marketing costs associated with the domestic butter program operated by the Canadian Dairy Commission. The actual dollars used to finance the program are obtained from producers through an offsetting charge built into the within-quota levy. Prior to 1986, the costs of the domestic butter program were borne by the federal government.

[3] The $49.92 per hectolitre includes $0.02 as a processor contribution to a rebate fund for food manufacturers using dairy ingredients as outlined in the Dairy Task Force recommendations.

Source: Canadian Dairy Commission

Table 40

NATIONAL LEVY RATES AND STRUCTURE, 1982 AND 1987 - 1991
($ per hectolitre)

Date of Change	Effective Date	Within-Quota Levy[1] Basis of Assessment	Basic Levy Without Export/Sleeve Levy	Special Export/Sleeve Levy	Treatment of Special Export/Sleeve Levy	Blended Rate on All Within-Quota	Over-Quota[2]	Skim-Off[3]
1982								
Aug. 1	Aug./82	MSQ	3.58	13.88	blended	4.40	20.21	0.30
1987								
Aug. 1	Aug./87	MSQ	4.34	29.84	split	5.26	37.66 Over 100% of MSQ	0.30
Sept. 25	Aug./87	MSQ	3.73	28.50	blended	4.42	28.50 100 - 102% of MSQ 37.04 Over 102% of MSQ	0.30
Nov. 25	Aug./87	MSQ	3.73	28.50	blended	4.42	28.50 100 - 103% of MSQ 37.04 Over 103% of MSQ	0.30
1988								
Jan. 27	Aug./87	MSQ	3.29	28.50	blended	4.00	28.50 100 - 103% of MSQ 33.54 Over 103% of MSQ	0.30
Sept. 30	Aug./88	MSQ	3.37	26.00	blended	3.00	26.00	0.30
1989								
Sept. 26	Aug./89	MSQ	2.20	24.75	blended	2.90	28.71	1.25
1990								
Aug. 1	Aug./90	MSQ	2.65	28.32	split	3.44	33.00	1.25
1991[4]								
Sept. 26	Aug./91	45% All Milk	$0.1696/kg	$3.4214/kg	split	$0.2450/kg	$10.43/kg	-
		55% MSQ	$0.3316/kg	$4.1817/kg	split	$0.4857/kg	$10.43/kg	$0.6875
		55% MSQ	$1.2505/hl	$15.7662/hl	split	$1.8311/hl	$37.53//hl	$0.6875

[1] The special export/sleeve levy shown for each date is the budgeted loss level for planned exports of whole milk products for industrial milk produced under the special export/sleeve portion of MSQ. During the 1985/86 and 1986/87 dairy years and again during the 1990/91 and 1991/92 dairy years, the levy rates associated with the domestic requirements and special export/sleeve portions of MSQ were separated, with the export levy only being payable to the CDC on the actual milk shipped under the special export/sleeve portion of the MSQ in these dairy years. The levy rates shown under the "basic levy without export" column were the rates applicable to the non-sleeve or requirement portion of within-quota shipments in these dairy years. These years aside, the export/sleeve levy has been blended with the basic within-quota rate to create a single national blended rate payable to the CDC on all within-quota shipments.

[2] Unless indicated otherwise, over-quota levy applies on shipments over 100 per cent of MSQ.

[3] On August 1, 1989, the basis of assessing provincial skim-off levy obligations was changed from $0.30/hl on Class 1 sales to $1.25/hl on the industrial volume equivalent (3.6 kg/hl) of the related residual butterfat left over from the processing of fluid milk and cream products. The rate was reduced in August, 1991 to $0.6875/hl of industrial milk equivalent. Provinces may elect to pay the levy directly to the CDC, or alternatively, have the CDC deduct it from the direct payment on industrial milk through an assessment on Class 1 sales.

[4] The levy rates and structure shown effective August 1, 1991 reflects the CMSMC decision to move to a system of assessing provincial levies on all milk (fluid plus within-quota MSQ shipments) by August 1, 1993. This decision was part of the September, 1991 agreement on fluid skim-off. The 1991 rates are based on a 45 per cent weighting on all milk and a 55 per cent weighting on the former basis of assessment on MSQ and fluid skim-off. For the 1991/92 dairy year the 45 per cent assessment rates on all milk are based on kilograms of butterfat. Alternative rates are given for the 55 per cent weighting on MSQ, one set on a per kilogram of butterfat basis, the other on a per hectolitre of milk basis. For the 55 per cent portion of the assessment, provinces were given the option of choosing the alternative which gave the lowest assessment. P.E.I, New Brunswick and Ontario opted for volume, the remaining provinces for butterfat.

ONTARIO PRODUCER LEVY RATES AND STRUCTURE, 1982 AND 1987 - 1991
($ per hectolitre)

Date of Change	Effective Date	Within-Quota Levy[1]				Over-Quota[2,3]	Skim-Off[4]
		Basic Levy	Per cent of MSQ to Which Applied[2]	Special Export Rate	Per cent of MSQ to Which Applied[2]		
1982							
Aug. 1	Aug./82	4.40	Up to 100%	-	-	20.10	0.30
1987							
Aug. 1	Aug./87	4.90	Up to 98.5%	29.84	98.5-100%	37.66	0.30
Oct. 16	Aug./87	4.16	Up to 100%	-	-	28.50	0.30
1988							
Feb. 1	Aug./87	3.75	Up to 100%	-	-	28.50	0.30
Aug. 1	Aug./88	3.00	Up to 100%	-	-	26.50	0.30
Oct. 1	Aug./88	2.35	Up to 100%	-	-	26.50	0.30
1989							
Sep. 27	Aug./89	2.35	Up to 100%	-	-	30.00	0.35
1990							
Sep. 13	Aug./90	3.00	Up to 100%	-	-	33.00	0.41
1991							
Sep. 10	Aug./91	2.70	Up to 100%	-	-	37.53	0.94

[1] For years where no special export rate is indicated, the levy costs associated with the special export program were fully blended into the basic within-quota rate.

[2] Before year-end adjustment.

[3] Over-quota levy applies on shipments over 100 per cent of MSQ.

[4] Levy assessed on Class 1 sales. Prior to August, 1990, levy was deducted by the Canadian Dairy Commission from the direct payment on industrial milk. Commencing August, 1990, levy is deducted directly from producer milk cheques by the OMMB.

OMMB PRODUCER DEDUCTIONS, 1982 AND 1987 - 1991 ($ per hectolitre)

Date of Change	Administration of the Board	Promotion	ODHIC	Dairy Science Chair	Total
1982					
February 1	.136	.470	.030	-	0.636
1987					
February 1	.220	.670	.030	-	0.920
1988					
February 1	.230	.655	.030	.005	0.920
1989					
February 1	.250	.700	.030	.005	0.985
1990					
February 1	.270	.755	.030	-	1.055
1991					
February 1	.310	.760	.030	-	1.100

PRODUCER TRANSPORTATION CHARGES[1], SOUTHERN ONTARIO, 1982 AND 1987 - 1991
($ per hectolitre)

	January - June	July - December
1982	1.62	1.77
1987	2.05	2.05
1988	2.05	2.00
1989	1.92	1.88
1990	2.00	2.07
1991	2.22	2.27

[1] Transportation charges to milk producers are reviewed by the Board every six months and any changes necessary are usually implemented on January 1st and July 1st of the year.

THE INDEX COMPONENTS OF THE FLUID MILK PRICING FORMULA - '1989-90 BASE' - TOP 75% OF ODFAP PRODUCERS -

Base Value: $58.91 per hectolitre

COMPONENTS OF FORMULA

(a) Cash Cost Index

Input	Corresponding Price Index	Combined 1989-90 Average % Weight
Grains, Concentrates) Roughages)	FIPI* - Feed Index	10.83
Breeding Fees	FIPI - Artificial Insemination	1.28
Machinery & Equipment Repairs, Gas, Oil & Lubrication	FIPI - Machinery & Motor Vehicle Operation Index	5.61
Custom Work	FIPI - Custom Work Index	1.37
Fertilizer	FIPI - Fertilizer Index	2.30
Pesticides	FIPI - Pesticides Index	0.67
Seed	FIPI - Seed Index	1.39
Building & Fence Repairs	FIPI - Building Repairs Index	1.76
Insurance	FIPI - Property Taxes Index	1.41
Hydro & Telephone	FIPI - Electricity Index	1.57
Veterinary & Drugs, Other Crop & Livestock Expense, Miscellaneous	Industrial Product Price Index (1986=100) - Statistics Canada	6.44
Haulage & Fees	Transportation and Licence Fees, Southern Ontario - OMMB	4.80
Total Cash Index		**39.43**
(b) Special Grains Assistance	Not indexed	**- 0.11**
(c) Labour Allowance	Average Weekly Earnings, Ontario Industrial Aggregate, Statistics Canada	**35.95**
(d) Return to Owner's Equity	Farm Credit Corporation Lending Rate	**12.06**
(e) Interest Paid on Debt	FIPI - Interest Index	**4.58**
(f) Machinery Depreciation (Less Net Gain/Loss on Sales)	FIPI- Machinery Replacement Index	**4.69**
(g) Building Depreciation	FIPI - Building Replacement Index	**1.80**
(h) Net Livestock Sales	Not indexed	**- 2.60**
(i) Management Fee	Average Weekly Earnings, Ontario Industrial Aggregate Statistics Canada	**4.20**
TOTAL		**100.00**

* FIPI: Farm Input Price Index, Eastern Canada - Statistics Canada

Note: This economic formula is used only as a guide by the Board for setting the producer price of milk destined for the fluid market.

PRODUCTION COST COMPONENTS OF THE FLUID MILK PRICING FORMULA BASE - '1989-90 BASE' - TOP 75% OF ODFAP PRODUCERS -

Component	1989-90 Combined Average $/hl
Cash Costs Excluding Interest and Hired Labour	$24.13
Special Grains Assistance	- 0.07
Labour Allowance at June Ontario Industrial Aggregate of $14.46/hr. in 1989 and $15.28/hr. in 1990	22.00
Return to Owner's Equity at FCC Rate of 12.4% in 1989 and 13.458% in 1990	7.38
Interest Paid on Debt Adjusted for Quota, House and Interest Assistance	2.80
Machinery and Equipment Depreciation	3.37
Building Depreciation	1.10
Net Gain/Loss on Machinery and Equipment Sales	- 0.50
Net Livestock Sales	- 1.59
Total Cost	58.62
Plus Management Fee	2.57
Total Cost Per hl	61.19
Less Current Value of Butterfat Differential @ $0.6784/hl	2.28
Total Base Cost Per Hectolitre	**58.91**
Related Physical Data	
Number of Cows (hd.)	47.7
Total Milk Sales per Farm (litres)	276,546
Milk Sales per Cow (litres)	5,935
Labour (hours per hl)	1.48[2]

[1] Replacement heifers coming into the herd were valued at an average of the cost of raising them and market value.

[2] A significant and unexpected decline occurred in the labour measured by the ODFAP sample over the 1987 and 1988 data collection years. This decline prompted a thorough review of the ODFAP methodology for collecting labour data with an alternative methodology employing time sheets having been implemented in the collection of labour data in 1990. The results from the 60 farms completing time sheets in 1990 indicate that the previous methodology has underestimated actual labour requirements by as much as 42 per cent. Given the underlying statistical variation in the time sheet estimates from the 60 farms, only 23 per cent of the indicated 42 per cent understatement of labour hours has been recognized in the formula at this time.

Source: Ontario Dairy Farm Accounting Project (ODFAP), 1989 and 1990

Table 46

FLUID MILK PRICING FORMULA
FACTOR AND VALUE MOVEMENTS - '1989-90 BASE'
- Top 75% of ODFAP Producers -
Replacements Valued at Average of Market Value and Cost

	Cash Costs	Special Grains Assistance	Labour Allowance	Return to Owner's Equity	Interest Paid on Debt	Machinery Deprec'n (-net gain/loss)	Building Deprec'n	Net Livestock Sales	Management Fee	Total	Formula Value
1989-90 Base	39.43	-0.11	35.95	12.06	4.58	4.69 (5.51 - .82)	1.80	-2.60	4.20	100.00	$56.91
January, 1991	39.85	-0.11	37.59	11.71	4.52	4.88	1.76	-2.60	4.39	101.99	60.06
February	39.85	-0.11	37.94	11.58	4.52	4.88	1.76	-2.60	4.43	102.25	60.24
March	39.85	-0.11	38.16	11.36	4.52	4.88	1.76	-2.60	4.46	102.27	60.25
April	39.74	-0.11	38.39	11.05	4.17	4.99	1.80	-2.60	4.49	101.90	60.03
May	39.74	-0.11	38.66	11.01	4.17	4.99	1.80	-2.60	4.52	102.16	60.18
June	39.74	-0.11	39.13	11.01	4.17	4.99	1.80	-2.60	4.57	102.69	60.49
July	39.11	-0.11	39.41	11.17	3.88	4.99	1.82	-2.60	4.60	102.27	60.25
August	39.11	-0.11	39.44	11.47	3.88	4.99	1.82	-2.60	4.61	102.60	60.44
September	39.11	-0.11	39.62	11.29	3.88	4.99	1.82	-2.60	4.63	102.64	60.46*
October	40.27	-0.11	39.60	10.64	3.84	5.02	1.83	-2.60	4.63	103.10	60.74*
November	40.27	-0.11	39.55	10.27	3.84	5.02	1.83	-2.60	4.62	102.69	60.49*
December	40.27	-0.11	39.53	10.19	3.84	5.02	1.83	-2.60	4.62	102.57	60.43*
January, 1992	41.43	-0.11	39.47	10.19	3.84	5.07	1.85	-2.60	4.61	103.74	61.12*
February	41.43	-0.11	39.84	10.19	3.84	5.07	1.85	-2.60	4.65	104.15	61.36*
March	41.43	-0.11	40.06	10.19	3.84	5.07	1.85	-2.60	4.68	104.41	61.51*

* Projected

INDUSTRIAL MILK PRICING MECHANISM[1]
FOR AUGUST 1, 1991
- Top 70% of Producers -

Component	Estimated Cost of Producing 1 Hectolitre Milk in Canada,[2] 1990		Indexed to 1st Quarter 1991[3]
	$/hl	% Weight	$/hl
(a) Cash Costs			
Purchased Feed	6.25	12.86	6.06
Artificial Insemination	0.65	1.34	0.66
Transportation, Fees and Promotion	5.09	10.47	5.55
Machinery and Equipment Repairs	1.90	3.91	1.99
Fuel and Oil	0.83	1.71	0.90
Custom Work	0.72	1.48	0.74
Fertilizer and Herbicides	1.29	2.65	1.34
Seed and Plants	0.56	1.15	0.54
Miscellaneous	0.73	1.50	0.73
Land and Building Repairs	0.76	1.56	0.74
Property Taxes and Insurance	1.42	2.92	1.45
Hydro and Phone	0.91	1.87	0.93
Hired Labour	2.36	4.86	2.43
Total Cash Costs	**23.46**	**48.28**	**24.07**
(b) Government Rebates and Others	**-0.36**	**-0.74**	**-0.36**
(c) Capital Costs			
Interest Paid	2.36	4.86	2.43
Building Depreciation	0.92	1.89	0.85
Machinery and Equipment Depreciation	3.16	6.50	3.26
Cow Depreciation	0.32	0.66	0.40
Return on Equity	4.91	10.10	4.43
Total Capital Costs	**11.68**	**24.01**	**11.37**
(d) Producer Labour			
Direct Labour	13.30	27.36	13.62
Return to Management	0.53	1.09	0.54
Total Producer Labour	**13.83**	**28.45**	**14.16**
Total Estimated Cost of Production	**$48.61**	**100.00**	**$49.24**
Ex-Post Adjustment Factor	-	-	0.82
Total Estimated Cost	**$48.61**	**100.00**	**$50.06**

[1] Under the federal pricing mechanism, the target price for industrial milk is set in August, base on surveyed cost of production data from the previous year indexed to the first quarter of th current calendar year. The price is reviewed through an updating of cost indices midway throug the year with a price adjustment being called for if the updated price differs from the target pric by 2 per cent or more.

[2] Actual 1990 costs of production for the milking herd only from Quebec, Ontario and Ne Brunswick surveys were calculated separately and weighted by their respective share of th Market Sharing Quota to obtain an estimated cost of production per hectolitre for Canada.

[3] The formula price of $50.06 for August, 1991 was based on cash costs indexed to the firs quarter 1991, and capital and labour indexed to the fourth quarter of 1991. The actual targe price for August, 1991 was established at $49.76.

Note: Totals may not add exactly due to rounding.

Source: Canadian Dairy Commission

Table 47

Table 48

CASH RECEIPTS[1] FROM MILK AND CREAM SOLD OFF ONTARIO FARMS, 1981/82 AND 1986/87 - 1990/91
Dairy Year - August to July
(thousand dollars)

	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
Sold for Fluid Purposes	412,005	524,624	534,887	549,667	548,001	569,197
Sold for Industrial Purposes						
Delivered as Milk	417,710	442,464	482,875	508,984	484,859	486,813
Delivered as Cream	[illegible]	16,386	16,820	16,234	13,938	13,523
Total	431,359	458,850	499,695	525,218	498,797	500,336
Total Farm Sales	843,364	983,474	1,034,582	1,074,885	1,046,798	1,069,533
Supplementary Payments	90,918	84,395	90,495	91,002	82,906	82,384
Total Cash Receipts	934,282	1,067,869	1,125,077	1,165,887	1,129,704	1,151,917

[1] Haulage, levies and board fees have been deducted where applicable.

Source: CANSIM, Statistics Canada

Table 49

PROVINCIAL UTILIZATION OF MILK SOLD BY THE OMMB, 1981/82 AND 1986/87 - 1990/91
Utilization
Dairy Year - August to July

Class	1981/82		1986/87		1987/88		1988/89		1989/90		1990/91	
	'000 L	%	'000 L	%	'000 L	%	'000 L	%	'000 L	%	'000 L	%
1 and 2	964,282	40.45	985,890	42.73	1,002,431	42.01	999,165	41.90	998,183	42.69	999,789	42.78
3	115,643	4.85	139,413	6.04	140,158	5.87	147,406	6.18	153,767	6.57	149,088	6.38
4	62,742	2.63	54,516	2.36	59,185	2.48	62,900	2.64	71,036	3.04	68,819	2.95
4(a)	421,063	17.66	480,732	20.84	486,663	20.40	462,364	19.39	440,482	18.84	412,228	17.64
4(b)	55,765	2.34	40,948	1.77	34,814	1.46	39,685	1.66	36,508	1.56	33,427	1.43
5	470,028	19.72	265,699	11.52	305,817	12.82	303,943	12.75	269,376	11.52	299,473	12.81
5(a)	294,216	12.34	340,044	14.74	356,835	14.95	369,017	15.48	369,007	15.78	374,185	16.01
6	254	0.01	-	-	139	0.01	3	0.00	36	0.00	81	0.00
Total	2,383,993	100.00	2,307,242	100.00	2,386,042	100.00	2,384,483	100.00	2,338,395	100.00	2,337,070	100.00

Table 50

SOUTHERN ONTARIO UTILIZATION OF MILK SOLD BY THE OMMB, 1981/82 AND 1986/87 - 1990/91

Utilization

Dairy Year - August to July

Class	1981/82		1986/87		1987/88		1988/89		1989/90		1990/91	
	'000 L	% of Prov. Total	'000 L	% of Prov. Total	'000 L	% of Prov. Total	'000 L	% of Prov. Total	'000 L	% of Prov. Total	'000 L	% of Prov. Total
1 and 2	877,965	91.05	907,216	92.02	925,573	92.33	923,436	92.42	924,010	92.57	927,548	92.78
3	112,092	96.93	136,744	98.09	137,221	97.91	144,446	97.99	151,173	98.31	146,618	98.34
4	61,325	97.74	53,133	97.46	57,822	97.70	61,760	98.19	70,044	98.60	68,195	99.09
4(a)	421,063	100.00	480,691	99.99	486,663	100.00	462,353	100.00	440,475	100.00	412,228	100.00
4(b)	55,731	99.94	40,875	99.82	34,814	100.00	39,680	99.99	36,472	99.90	33,425	99.99
5	465,743	99.09	261,427	98.39	301,270	96.51	299,333	98.48	264,616	98.23	294,520	98.35
5(a)	270,454	91.92	317,761	93.45	332,494	93.18	344,315	93.31	344,260	93.29	347,301	92.82
6	254	100.00	-	-	139	100.00	3	100.00	36	100.00	81	100.00
Total	2,264,627	94.99	2,197,867	95.26	2,275,996	95.39	2,275,328	95.42	2,231,086	95.41	2,229,916	95.42

Table 51

NORTHERN ONTARIO[1] UTILIZATION OF MILK SOLD BY THE OMMB, 1981/82 AND 1986/87 - 1990/91

Utilization

Dairy Year - August to July

Class	1981/82		1986/87		1987/88		1988/89		1989/90		1990/91	
	'000 L	%of Prov. Total	'000 L	%of Prov. Total	'000 L	%of Prov. Total	'000 L	%of Prov. Total	'000 L	%of Prov. Total	'000 L	%of Prov. Total
1 and 2	86,318	8.95	78,674	7.98	76,859	7.67	75,727	7.58	74,173	7.43	72,221	7.22
3	3,551	3.07	2,669	1.91	2,936	2.09	2,960	2.01	2,594	1.69	2,470	1.66
4	1,417	2.26	1,384	2.54	1,363	2.30	1,140	1.81	992	1.40	624	0.91
4(a)	-	-	41	0.01	-	-	11	0.00	7	0.00	0	0.00
4(b)	33	0.06	73	0.18	-	-	5	0.01	36	0.10	2	0.01
5	4,284	0.91	4,271	1.61	4,547	1.49	4,610	1.52	4,760	1.77	4,953	1.65
5(a)	23,762	8.08	22,263	6.55	24,341	6.82	24,702	6.69	24,747	6.71	26,884	2.18
6	-	-	-	-	-	-	-	-	-	-	0	0.00
Total	**119,365**	**5.01**	**109,375**	**4.74**	**110,046**	**95.39**	**109,155**	**4.58**	**107,309**	**4.59**	**107,154**	**4.58**

[1] Northern Ontario is comprised of the districts of Algoma, Cochrane, Kenora, Manitoulin, Muskoka, Nipissing, Parry Sound, Rainy River, Sudbury, Thunder Bay, and Timiskaming.

Table 52

ONTARIO FLUID MILK AND CREAM SALES, 1981/82 AND 1986/87 - 1990/91
Dairy Year - August to July
(thousand litres)

Type	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
Fluid Milk						
Standard Milk	274,084	191,917	187,973	181,389	169,210	153,498
2% Milk	610,748	711,600	723,603	714,943	720,020	679,845
1% Milk [1]	-	-	-	-	-	47,220
Skim Milk	3,003	43,235	47,182	55,016	66,655	61,347
Total Fluid Milk	**917,835**	**946,752**	**958,758**	**951,348**	**955,885**	**941,910**
Buttermilk	5,793	5,302	5,218	5,051	4,722	4,659
Chocolate Milk and/or Dairy Drink	41,950	42,985	46,444	46,427	46,461	41,078
Cream						
Cereal Cream	26,183	30,857	31,500	32,970	33,161	31,307
Table Cream	3,336	4,981	5,656	6,220	6,828	6,757
Whipping Cream	4,136	5,229	5,450	5,124	5,397	5,363
Total Cream	**35,655**	**41,067**	**42,606**	**44,314**	**45,386**	**43,427**
Sour Cream	6,554	10,144	11,250	11,614	12,504	13,901

[1] 1% milk introduced to the Ontario market April 30, 1990.

Sources: CANSIM, Statistics Canada
Ontario Ministry of Agriculture and Food

Table 53

ONTARIO PRODUCTION OF SPECIFIED DAIRY PRODUCTS, 1981/82 AND 1986/87 - 1990/91
Dairy Year - August to July
(thousand kilograms)

	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
Creamery Butter	35,550	28,774	31,915	31,635	30,301	31,620
Cheddar Cheese	33,595	36,434	37,795	37,351	36,659	36,050
Specialty Cheese[1]	44,707	55,108	56,016	56,407	51,844	49,020
Cottage Cheese	13,990	13,982	14,509	14,734	15,148	15,889
Yogurt	7,291	17,085	19,000	21,415	23,327	22,967
Skim Milk Powder	24,387	14,142	15,768	13,746	10,452	11,611

(thousand litres)

Ice Cream						
Hard Type	113,757	121,044	121,398	123,686	127,119	126,232
Soft Type	2,049	2,106	2,163	2,162	2,280	2,250
Total	115,806	123,150	123,561	125,848	129,399	128,482

[1] Whole milk variety.

Sources: CANSIM, Statistics Canada
Ontario Ministry of Agriculture and Food

CHEDDAR CHEESE SALES AND AVERAGE PRICES ON THE BELLEVILLE EXCHANGE, 93 and 94 SCORE COMBINED, 1981/82 AND 1986/87 - 1990/91 Dairy Year - August to July

Sales (kilograms)	White	Coloured	Total
1981/82	2,011,288	1,226,303	3,237,591
1986/87	2,549,780	542,002	3,091,782
1987/88	2,834,851	693,921	3,528,772
1988/89	3,733,202	1,840,581	5,573,783
1989/90	3,451,701	1,134,048	4,585,749
1990/91	2,970,785	1,451,843	4,422,628

12-Month Weighted Average Price ($ per kilogram)	White	Coloured	White & Coloured Yearly Weighted Average
1981/82	4.137	4.116	4.129
1986/87	5.113	5.120	5.114
1987/88	5.141	5.155	5.144
1988/89	5.176	5.183	5.178
1989/90	5.225	5.232	5.227
1990/91	5.381	5.388	5.383

Table 55

DISTRIBUTION OF ONTARIO DAIRY PROCESSING PLANTS BY VOLUME OF MILK RECEIVED, FLUID AND INDUSTRIAL PLANTS, 1986/87 - 1990/91

Dairy Year - August to July

Volume Range (litres)	1986/87				1987/88				1988/89				1989/90				1990/91			
	Plants		Volume		Plants		Volume		Plants		Volume		Plants		Volume		Plants		Volume	
	#	%	litres ('000)	%	#	%	litres ('000)	%	#	%	litres ('000)	%	#	%	litres ('000)	%	#	%	litres ('000)	%
0-5,000,000	51	40.8	107,616	4.7	42	35.9	83,641	3.5	40	35.1	81,296	3.4	37	33.9	76,367	3.3	37	34.6	72,269	3.1
5,000,001-10,000,000	22	17.6	165,604	7.2	23	19.7	178,323	7.5	24	21.1	192,722	8.1	21	19.3	157,530	6.7	19	17.7	145,125	6.2
10,000,001-25,000,000	20	16.0	326,612	14.2	22	18.8	377,137	15.8	17	14.9	272,812	11.4	21	19.3	343,019	14.7	22	20.6	365,326	15.6
25,000,001-50,000,000	20	16.0	702,849	30.5	18	15.4	648,709	27.2	21	18.4	728,074	30.5	19	17.4	699,009	29.9	18	16.8	647,756	27.7
50,000,001-and over	12	9.6	1,002,562	43.4	12	10.2	1,098,231	46.0	12	10.5	1,109,579	46.5	11	10.1	1,062,469	45.4	11	10.3	1,106,591	47.4
Total	**125**	**100.0**	**2,307,243**	**100.0**	**117**	**100.0**	**2,386,041**	**100.0**	**114**	**100.0**	**2,384,483**	**100.0**	**109**	**100.0**	**2,338,394**	**100.0**	**107**	**100.0**	**2,337,068**	**100.0**

Table 56

DISTRIBUTION OF ONTARIO DAIRY PROCESSING PLANTS BY VOLUME OF MILK RECEIVED, FLUID PLANTS, 1986/87 - 1990/91

Dairy Year - August to July

Volume Range (litres)	1986/87				1987/88				1988/89				1989/90				1990/91			
	Plants		Volume		Plants		Volume		Plants		Volume		Plants		Volume		Plants		Volume	
	#	%	litres ('000)	%	#	%	litres ('000)	%	#	%	litres ('000)	%	#	%	litres ('000)	%	#	%	litres ('000)	%
0-5,000,000	17	36.2	43,290	3.9	13	29.6	33,293	2.9	13	29.5	31,845	2.7	13	31.0	35,574	3.1	12	29.3	29,346	2.6
5,000,001-10,000,000	9	19.1	68,372	6.1	10	22.7	78,698	6.9	12	27.3	93,715	8.1	8	19.0	57,040	5.0	8	19.5	55,226	4.8
10,000,001-25,000,000	6	12.8	74,471	6.6	6	13.6	81,359	7.1	4	9.1	59,703	5.2	6	14.3	77,624	6.8	7	17.1	106,960	9.3
25,000,001-50,000,000	8	17.0	304,675	27.1	7	15.9	253,513	22.2	7	15.9	265,015	22.9	7	16.7	244,175	21.3	6	14.6	210,794	18.3
50,000,001-and over	7	14.9	632,973	56.3	8	18.2	693,974	60.8	8	18.2	706,630	61.1	8	19.0	729,525	63.8	8	19.5	747,040	65.0
Total	47	100.0	1,123,781	100.0	44	100.0	1,140,837	100.0	44	100.0	1,156,908	100.0	42	100.0	1,144,138	100.0	41	100.0	1,149,366	100.0

DISTRIBUTION OF ONTARIO DAIRY PROCESSING PLANTS BY VOLUME OF MILK RECEIVED, INDUSTRIAL PLANTS, 1986/87 - 1990/91
Dairy Year - August to July

Volume Range (litres)	1986/87				1987/88				1988/89				1989/90				1990/91			
	Plants		Volume		Plants		Volume		Plants		Volume		Plants		Volume		Plants		Volume	
	#	%	litres ('000)	%	#	%	litres ('000)	%	#	%	litres ('000)	%	#	%	litres ('000)	%	#	%	litres ('000)	%
0-5,000,000	34	43.6	64,326	5.4	29	39.7	50,349	4.0	27	38.6	49,451	4.0	24	35.8	40,793	3.4	25	37.9	42,923	3.6
5,000,001-10,000,000	13	16.7	97,232	8.2	13	17.8	99,625	8.0	12	17.1	99,007	8.1	13	19.4	100,490	8.4	11	16.7	89,899	7.6
10,000,001-25,000,000	14	17.9	254,141	21.5	16	21.9	295,779	23.8	13	18.6	213,108	17.4	15	22.4	265,195	22.2	15	22.7	258,388	21.7
25,000,001-50,000,000	12	15.4	398,173	33.6	11	15.1	395,196	31.7	14	20.0	463,059	37.7	12	17.9	454,834	38.1	12	18.2	436,962	36.8
50,000,001-and over	5	6.4	369,590	31.2	4	5.5	404,257	32.5	4	5.7	402,949	32.8	3	4.5	332,944	27.9	3	4.5	359,551	30.3
Total	78	100.0	1,183,462	100.0	73	100.0	1,245,206	100.0	70	100.0	1,227,574	100.0	67	100.0	1,184,256	100.0	66	100.0	1,187,703	100.0

Table 57

DISTRIBUTION OF ONTARIO DAIRY PROCESSING PLANTS BY PRODUCT TYPE, 1986/87 - 1990/91
Number of Plants
Dairy Year - August to July

	1986/87	1987/88	1988/89	1989/90	1990/91
Fluid Plants (Classes 1 and 2)	47	44	44	42	41
Industrial Plants by Major Product[1]					
Specialty Products (Classes 3, 4 and 4c)	13	12	12	13	10
Variety Cheeses (Classes 4a and 4b)	34	32	28	29	29
Butter, Powder and Evaporated Milk (Class 5)	10	8	7	6	8
Cheddar Cheese (Class 5a)	21	21	23	19	19
Total Industrial Plants	78	73	70	67	66
Total Plants	**125**	**117**	**114**	**109**	**107**

[1] Major product category for a plant has been determined on the basis of the Class (or Classes) of milk representing the highest utilization of total milk received by the plant during the dairy year.

COMPOSITION OF THE ONTARIO MILK TRANSPORT SECTOR, 1987 - 1991 August

	1987	1988	1989	1990	1991
Number of Transporters	128	121	113	108	105
Number of Vehicles					
Single Axle Trucks	76	67	56	51	43
Tandem Axle Trucks	287	284	259	259	256
Pick-up Trailers	22	23	32	33	35
Single Axle Tractors	7	7	7	7	7
Tandem Axle Tractors	63	64	56	56	56
Pumpover Units	54	53	51	51	48
Total Units	509	498	461	457	445

Table 59

Table 60

OMMB ADVERTISING AND PROMOTION EXPENDITURES, 1981/82 AND 1986/87 - 1990/91
(fiscal year ending October 31st)

	1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
A. Provincial Promotion						
Fluid Milk Advertising, Promotion, Media, Production and Research						
Advertising and Promotion	$ 4,608,332	$ 6,667,910	$ 7,081,766	$ 7,628,962	$ 7,974,264	$ 8,479,405
Research	261,829	350,303	364,932	352,107	428,546	450,771
Nutrition Communications	203,563	320,565	314,572	344,831	375,937	380,858
Other Activities	38,505	70,433	63,847	46,572	67,882	43,160
Administration	308,329	488,771	535,543	552,086	555,303	611,164
New Product Allowance	-	54,142	70,271	-	-	-
Sale of Creative Materials	-	-	(24,443)	7,750	-	-
Total Provincial	**5,420,558**	**7,952,124**	**8,406,488**	**8,932,308**	**9,401,932**	**9,965,358**
B. National Promotion						
Dairy Bureau of Canada	4,818,637	7,164,602	7,745,242	7,612,378	7,837,344	7,736,538
Total Promotion Expenditure (Provincial & National)	**$10,239,195**	**$15,116,726**	**$16,151,730**	**$16,544,686**	**$17,239,276**	**$17,701,896**

OMMB FLUID MILK SALES, 1981 AND 1986-1990
Sales Volume
(Calendar Year)

	1981	1986	1987	1988	1989	1990
Standard and Special Milk 3.25% B.F. and up ('000 L)	290,501	192,043	190,721	186,356	175,736	163,913
Partly Skimmed Milk 1.9% to 2.1% B.F. ('000 L)	591,864	700,548	718,018	720,430	717,991	706,873
Partly Skimmed Milk[1] 0.9% to 1.1% B.F. ('000 L)	32,591	39,812	45,095	49,412	60,361	66,796
Skim Milk Under 0.3% B.F. ('000 L)	-	-	-	-	-	25,563
Chocolate Milk and/or Dairy Drink ('000 L)	43,204	39,630	45,550	46,741	46,145	45,391
Buttermilk ('000 L)	5,986	5,017	5,324	5,164	4,914	4,693
Total Fluid Milk ('000 L)	**964,146**	**977,050**	**1,004,708**	**1,008,103**	**1,005,147**	**1,013,229**
Population as of July 1st ('000)	8628.3	9,125.8	9,285.2	9,447.1	9,603.4	9759.4
Litres Per Capita	**111.74**	**107.06**	**108.21**	**106.71**	**104.67**	**103.82**

[1] 1% milk introduced to the Ontario market April 30, 1990.

Sources: CANSIM, Statistics Canada
Ontario Ministry of Agriculture and Food

Table 61

Table 62

STATISTICS FROM THE ONTARIO CREAM PRODUCERS' MARKETING BOARD 1981/82 AND 1986/87 - 1990/91

Dairy Year - August to July

		1981/82	1986/87	1987/88	1988/89	1989/90	1990/91
Number of Licenced Producers as of August 1		2,506	1,917	1,795	1,629	1,390	1,220
Kilograms of Cream Shipped, August 1 - July 31		3,492,729	3,441,325	3,504,808	3,369,419	2,863,926	2,766,729
Provincial Cream Quota Allotment		3,875,470	3,556,134	3,644,732	3,469,898	3,330,162	3,129,104
Producer Minimum Gross Returns per Kilogram Butterfat Marketed (dollars)	August 1	$3.88	$4.92	$4.92	$4.99	$5.06	$5.22
	January 1	4.06	4.92	4.99[3]	4.99	5.06	5.22
	April 1	4.06	4.92	4.99	4.99	5.06	5.22
			Jan '86			Jan '90	Jan '91
Producer Deductions per Kilogram of Butterfat (cents)[1]	Board Administration	3.0[2]	8.1	8.1	8.1	9.1	11.1
	Dairy Bureau of Canada	5.0	5.9	5.9	5.9	5.9	5.9
	Total	8.0	14.0	14.0	14.0	15.0	17.0
Quota Transfer Price ($/kg B.F.)	Unused	0.50	5.48	2.96	1.47	0.49	0.21
	Used	0.50	4.20	2.28	0.86	0.19	0.27
Over-Quota Levy Rate ($/kg B.F.)		2.20	4.00	4.00	4.00	4.00	4.00

[1] For the 1986/87 to 1990/91 dairy years, the actual month of each deduction change during this time period is shown. All changes are effective on the 1st of the month.

[2] Effective January 1, 1982, the Board administration deduction increased to 5.0 cents. Effective June 1, 1982, the Board administration deduction increased to 7.0 cents. The Dairy Bureau of Canada deduction remained at 5.0 cents per kilogram of butterfat.

[3] Effective February 1, 1988.

Source: Ontario Cream Producers' Marketing Board

FARM INPUT PRICE INDEXES (1986 = 100), EASTERN CANADA, 1986 - 1990
Calendar year

Table 63

Farm Inputs	1986		1987		1988		1989		1990	
	Index	% Change	Index	% Change	Index	% Change	Index	% Change	Index	% Change
Total Farm Inputs	100.0	+2.4	101.5	+1.5	106.7	+5.1	111.1	+4.1	111.9	+ 0.7
Building and Fencing	100.0	+5.0	104.6	+4.6	109.4	+4.6	115.0	+5.1	117.6	+2.3
Machinery Replacement	100.0	+3.3	102.1	+2.1	105.9	+3.7	109.2	+3.1	113.0	+3.5
Machinery and Motor Vehicle Operation[1]	100.0	-5.3	97.4	- 2.6	101.2	+3.9	105.2	+4.0	109.0	+3.6
Seed	100.0	+0.6	111.9	+11.9	116.4	+4.0	122.5	+5.2	112.5	- 8.2
Fertilizer	100.0	- 6.2	99.3	- 0.7	109.3	+10.1	108.9	- 0.4	104.3	- 4.2
Pesticides	100.0	+8.0	103.1	+3.1	101.3	- 1.7	102.4	+1.1	103.6	+1.2
Feed	100.0	- 2.2	95.8	- 4.2	110.6	+15.4	113.7	+2.8	102.2	-10.1
Artificial Insemination	100.0	+7.1	109.0	+9.0	114.7	+5.2	117.2	+2.2	121.5	+3.7
Electricity	100.0	+2.2	107.3	+7.3	110.5	+3.0	116.3	+5.2	123.2	+5.9
Hired Farm Labour	100.0	+4.8	106.3	+6.3	112.5	+5.8	120.3	+6.9	125.6	+4.4

[1] Farm Share Only.

Notes: The Farm Input Price Index, 1986 = 100, measures the price changes of a "basket of goods and services" purchased in 1986 by Canadian farmers for use in agricultural production. Because the basket of inputs used for the 1986 base weight is fixed, the index should not be interpreted as a measure of production cost movements due to changes in the composition of the basket of inputs (substitution effect), nor does it reflect changes in productivity which took place in a period subsequent to the base year.

Source: CANSIM, Statistics Canada

CONSUMER PRICE INDEXES FOR CANADA (1986 = 100), 1986 - 1990
Calendar year

Table 64

Consumer Price Index	1986 Index	1986 % Change	1987 Index	1987 % Change	1988 Index	1988 % Change	1989 Index	1989 % Change	1990 Index	1990 % Change
All Items	100.0	+4.2	104.4	+4.4	108.6	+4.0	114.0	+5.0	119.5	+4.8
Food	100.0	+5.0	104.4	+4.4	107.2	+2.7	111.1	+3.6	115.7	+4.1
Food Purchased from Stores	100.0	+5.0	104.6	+4.6	106.6	+1.9	109.9	+3.1	114.2	+3.9
Food Purchased from Restaurants	100.0	+4.7	104.0	+4.0	108.8	+4.6	114.5	+5.2	120.1	+4.9
Dairy Products	100.0	+1.9	102.3	+2.3	106.0	+3.6	109.1	+2.9	112.6	+3.2
Fluid Whole Milk	100.0	+1.3	101.8	+1.8	106.1	+4.2	109.2	+2.9	112.1	+2.7
Low-fat Milk (2%)	100.0	+0.3	101.8	+1.8	105.9	+4.0	109.9	+3.8	114.0	+3.7
Butter	100.0	+3.0	101.7	+1.7	103.8	+2.1	105.0	+1.2	108.2	+3.0
Cheddar Cheese	100.0	+3.0	103.7	+3.7	106.9	+3.1	108.9	+1.9	111.2	+2.1
Process Cheese	100.0	+2.0	104.4	+4.4	106.8	+2.3	109.9	+2.9	113.2	+3.0
Cottage Cheese	100.0	+3.7	102.9	+2.9	108.0	+5.0	111.6	+3.3	113.9	+2.1
Ice Cream and Ice Milk	100.0	+4.7	100.9	+0.9	104.3	+3.4	106.2	+1.8	109.3	+2.9
Fats and Oils	100.0	- 3.5	96.2	- 3.8	100.7	+4.7	108.3	+7.5	109.3	+0.9
Margarine	100.0	- 7.1	95.0	- 5.0	103.1	+8.5	113.7	+10.3	115.7	+1.8
Concentrated Orange Juice	100.0	-16.4	104.9	+4.9	123.3	+17.5	121.7	- 1.3	132.5	+8.9
Roasted or Ground Coffee	100.0	+24.5	86.0	-14.0	73.6	-14.4	71.2	- 3.3	67.9	- 4.6
Tea	100.0	- 6.0	93.0	- 7.0	89.9	- 3.3	87.3	- 2.9	86.7	- 0.7
Non-alcoholic Beverages	100.0	+8.8	102.[illegible]	+2.0	104.3	+2.3	103.0	- 1.2	100.9	- 2.0
Beef	100.0	+2.1	109.1	+9.1	110.8	+1.6	113.2	+2.2	117.6	+3.9
Pork	100.0	+16.1	108.9	+8.9	103.6	- 4.9	105.3	+1.6	114.8	+9.0
Poultry	100.0	+8.0	105.5	+5.5	106.5	+0.9	116.7	+9.6	122.4	+4.9
Eggs	100.0	- 0.9	97.4	- 2.6	101.1	+3.8	108.0	+6.8	110.3	+2.1
Fresh Fruit	100.0	+8.7	99.7	- 0.3	102.4	+2.7	97.2	- 5.1	104.8	+7.8
Fresh Vegetables	100.0	+11.1	111.1	+11.1	107.1	- 3.6	116.7	+9.0	117.0	+0.3
Bakery and Other Cereal Products	100.0	+5.4	102.7	+2.7	106.2	+3.4	109.6	+3.2	113.8	+3.8

Source: Catalogue No. 62-010, Consumer Prices and Price Indexes, Statistics Canada

CONSUMER PRICE INDEXES FOR ONTARIO (1986 = 100), 1986 - 1990
Calendar year

Table 65

Consumer Price Index	1986		1987		1988		1989		1990	
	Index	% Change	Index	% Change	Index	% Change	Index	% Change	Index	% Change
All Items	100.0	+4.4	105.1	+5.1	110.0	+4.7	116.4	+5.8	122.0	+4.8
Food	100.0	+4.4	104.4	+4.4	107.2	+2.7	111.8	+4.3	116.4	+4.1
Food Purchased from Stores	100.0	+4.4	104.5	+4.5	106.5	+1.9	110.5	+3.8	114.5	+3.6
Food Purchased from Restaurants	100.0	+4.4	103.9	+3.9	109.1	+5.0	115.1	+5.5	121.0	+5.1
Dairy Products	100.0	+0.5	102.2	+2.2	106.9	+4.6	111.3	+4.1	115.9	+4.1
Fluid Whole Milk	100.0	- 1.2	101.1	+1.1	108.7	+7.5	116.0	+6.7	122.3	+5.4
Low-fat Milk (2%)	100.0	- 3.2	102.3	+2.3	108.3	+5.9	114.2	+5.4	120.7	+5.7
Butter	100.0	+3.0	101.5	+1.5	103.4	+1.9	106.3	+2.8	110.7	+4.1
Cheddar Cheese	100.0	+2.1	103.6	+3.6	106.1	+2.4	108.3	+2.1	111.4	+2.9
Process Cheese	100.0	+1.3	105.1	+5.1	107.9	+2.7	112.5	+4.3	114.9	+2.1
Fats and Oils	100.0	- 4.1	96.2	- 3.8	99.0	+2.9	108.8	+9.9	108.4	- 0.4
Coffee	100.0	+22.9	85.0	-15.0	77.2	- 9.2	78.1	+1.2	76.4	- 2.2
Tea	100.0	- 8.6	94.1	- 5.9	90.7	- 3.6	91.2	+0.6	97.0	+6.4
Non-alcoholic Beverages	100.0	+8.7	98.9	- 1.1	100.5	+1.6	98.0	- 2.5	93.6	- 4.5
Beef	100.0	+2.7	109.3	+9.3	110.8	+1.4	114.4	+3.2	118.8	+3.8
Pork	100.0	+11.9	110.5	+10.5	106.1	- 4.0	112.0	+5.6	121.9	+8.8
Poultry	100.0	+7.6	101.7	+1.7	103.4	+1.7	110.9	+7.3	120.1	+8.3
Eggs	100.0	- 1.6	96.8	- 3.2	101.0	+4.3	107.7	+6.6	109.4	+1.6
Fresh Fruit	100.0	+6.7	103.5	+3.5	105.6	+2.0	101.1	- 4.3	109.7	+8.5
Fresh Vegetables	100.0	+9.8	112.1	+12.1	108.0	- 3.7	119.1	+10.3	117.5	- 1.3
Bakery and Other Cereal Products	100.0	+4.7	102.5	+2.5	105.8	+3.2	109.5	+3.5	112.6	+2.8

Source: CANSIM, Statistics Canada

DATES OF HISTORICAL INTEREST

1965 - The Ontario Milk Marketing Board established November 1st.

1968 - Group I Price Pooling commenced March 1st.

1970 - Classified Pricing established April 1st.
- Group II Pool established April 1st.
- Plant Supply Quotas established for Class 5 and Class 5(a) industrial milk.
- Market Sharing Quota Program for industrial use was introduced December 1st.

1975 - Milk Quality Penalty Program introduced June 1st.

1976 - Ontario Dairy Farm Accounting Project commenced.

1977 - Discontinuation of marketing milk in cans October 31st.

1978 - Conversion from imperial to metric measure April 1st.

1979 - MSQ year changed from April 1 - March 31 to August 1 - July 31 effective August 1st.

1980 - All producers required to meet Grade A bacterial requirements as of February.
- Quota Exchange introduced in March for the purchase/sale of Group I Pool quota or used and unused MSQ.
- A single posted transportation charge for producers in Southern Ontario became effective July 1st.

1981 - Ontario Dairy Herd Improvement Corporation established April 1st.
- Single Milk Quality Standard: All producers required to meet Grade A standards for farm premises as of September 1st.

1982 - Udder Health Management Program commenced in April.

1985 - Fresh Milk Sampling and Testing introduced March 1st.
- Ontario Dairy Herd Improvement Corporation (ODHIC) and the Record of Performance (ROP) milk recording services consolidated effective July 1st.
- Plant Supply Quotas extended in October to include Classes 4(a) and 4(b) specialty cheese utilization as an interim measure while a quota/auction proposal for the milk supply allocation system was under review.

1987 - Effective August 1st, the Plant Supply Quota system initiated in October, 1985 was adopted on a permanent basis with plant supply quotas for specialty cheese (Class 4(a) and 4(b)), cheddar cheese (Class 5(a)), and butter/powder (Class 5) to be adjusted at the beginning of each dairy year to reflect national demand for each product over the two previous calendar years.

1989 - Penalty program for high somatic cell counts introduced August 1st.

1990 - Effective August 1st, market sharing quotas (MSQ) issued in kilograms of butterfat instead of litres of milk.
- A one-year seasonality program to encourage fall milk production introduced August, 1990.

1991 - A long-term seasonality policy commenced August 1st for Southern Ontario.

1992 - Multiple Component Pricing (MCP) implemented January 1st.

METRIC CONVERSION FACTORS

1 pound	=	0.4405126 litres
1 pound	=	0.4535924 kilograms
1 litre	=	2.2700826 pounds
1 litre	=	0.8798769932 quarts
1 litre	=	0.219969248 gallons
1 litre	=	1.0296923 kilograms
1 quart	=	1.1365225 litres
1 gallon	=	4.54609 litres
1 kilogram	=	2.2046225 pounds
1 kilogram	=	0.9711639 litres
1 metric tonne	=	2204.6 pounds
1 metric tonne	=	1000 kilograms
$1 per hundredweight	=	$2.2700826 per hectolitre
$1 per hectolitre	=	$0.4405126 per hundredweight